



MONTANA FISH, WILDLIFE & PARKS
HELENA, MT.

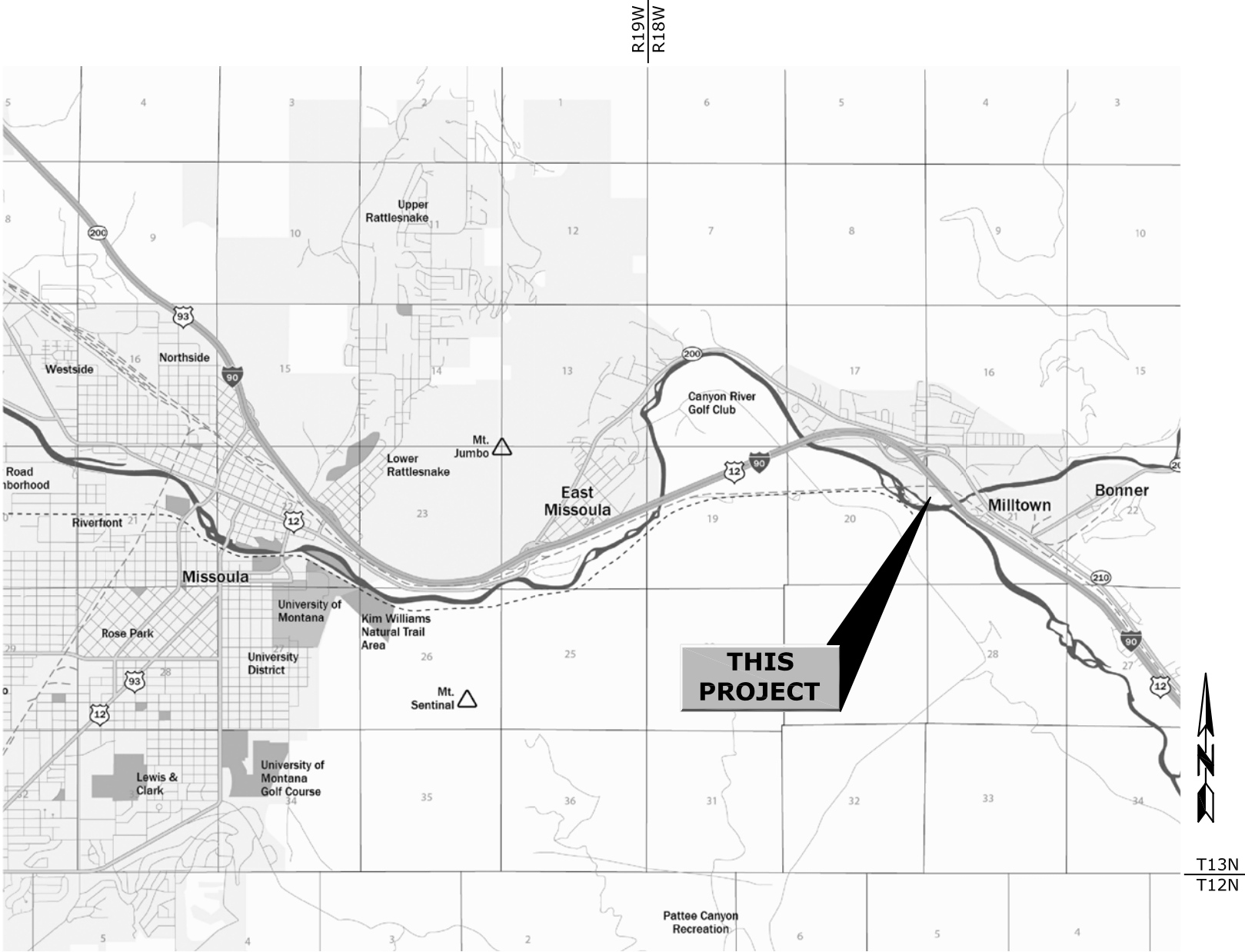
CONSTRUCTION PLANS FOR:
MILLTOWN STATE PARK
ROADS, TRAILS & PARKING AREA DEVELOPMENT

BONNER, MONTANA
MISSOULA COUNTY, MONTANA

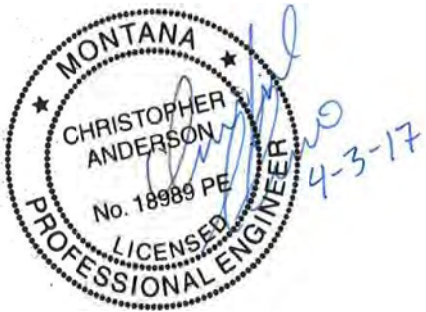


LOCATION MAP

| INDEX TO SHEETS | |
|-----------------|-----------------------------------|
| NO. | DESCRIPTION |
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, LEGEND, & SYMBOLS |
| 3 | SITE PLAN OVERVIEW |
| 4 | SUMMARY OF EST. QUANTITIES |
| 5-6 | PROJECT CONTROL POINTS |
| 7-11 | TYPICAL SECTIONS |
| 12 | TEMP CONSTRUCTION ACCESS ROAD P&P |
| 13-17 | ACCESS ROAD PLAN & PROFILE |
| 18-25 | PARKING LOT A |
| 26 | GATEWAY ACCESS ROAD P&P |
| 27-30 | GATEWAY PARKING LOT |
| 31-36 | TRAIL 'A' PLAN & PROFILE |
| 37 | TRAIL 'F' PLAN & PROFILE |
| 38 | TRAIL 'G' PLAN & PROFILE |
| 39 | TRAIL 'H' PLAN & PROFILE |
| 40-42 | INTERSECTION DETAILS |
| 43-44 | OVERLOOK DETAILS |
| 45-48 | GRADING PLANS |
| 49-55 | SIGN PLAN AND STRIPING DETAILS |
| 56-59 | FENCING AND GATE PLAN AND DETAILS |
| 60-62 | LANDSCAPING PLAN AND DETAILS |
| 63-70 | CULVERT DETAILS |
| 71-72 | MISCELLANEOUS DETAILS |
| 73-74 | VAULT TOILET DETAILS |
| 75-76 | CONCRETE DETAILS |
| 77 | BOLLARD DETAILS |
| A01-A09 | PAVILION |
| S1-S4 | PAVILION RETAINING WALL |
| S5-S10 | PAVILION STRUCTURE DETAILS |
| S11-S18 | BRIDGE CROSSING SHEETS |
| E1-E10 | ELECTRICAL |



AREA MAP
No Scale



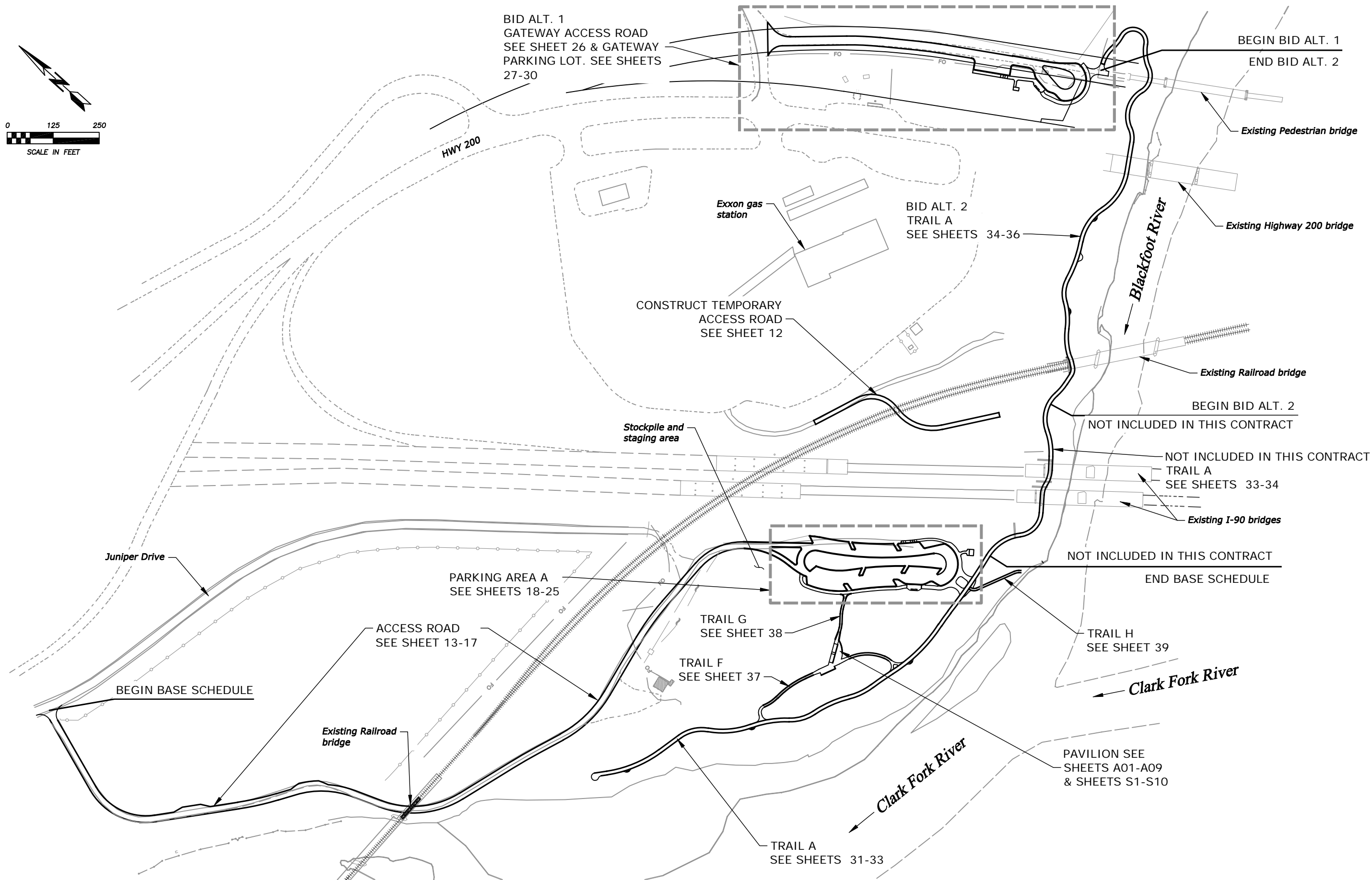
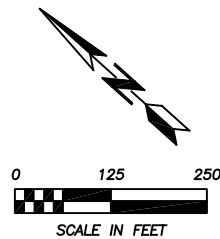
PLANS PREPARED BY:



IN COOPERATION WITH:



| | | | | | | | | | |
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| | | | | <div> <div>EXISTING</div> <div>PROPOSED</div> </div> | | | | <div> <div>EXISTING</div> <div>PROPOSED</div> </div> | |
| expansion joint | exp. jt. | alternate | alt. | Signs | | | Drainage sump | | |
| finished grade | FG | and | & | Retaining wall | N/A | | Construction limits | | |
| foot (measurement) | ft. or ' | and so forth (et cetera) | etc. | Ditch | | | Property monument | | |
| galvanized gage (gauge) | galv. ga. | approximate | approx. | Edge of asphalt | | | Control point | | |
| hexagon | hex. | asphalt | asph. | Edge of gravel | | | Concrete | | |
| inside diameter | ID | at | @ | Road centerline | | | Fence | | |
| invert | Inv. | Begin vertical curve elevation | BVCE | Bridge | | | Chain-link Fence | | |
| Invert elevation | IE | Begin vertical curve station | BVCS | Stairs | | | Bollard | | |
| left | LT | bench mark | BM | Building | | | Well / Ground Water Monitoring | | |
| length of curve | L | centerline | CL, C/L | Riprap | N/A | | Boulders | | |
| lump sum | LS | corrugated | corr. | Layout point coordinate | N/A | | | | |
| miles | m | corrugated metal pipe | CMP | Culvert | | | | | |
| maximum | max. | cubic yard | CY | Minor contour | | | | | |
| minute(s) (angular) minimum | ', min. | cubic feet | ft³, cf | Major contour | | | | | |
| miscellaneous | misc. | culvert | culv. | Natural gas line | | | | | |
| monument | mon. | curve delta | Δ | Overhead power line | | | | | |
| normal crown | nc | degree | °, deg. | Underground power line | | | | | |
| north | N | diameter | dia., D, Ø | Fiber optic line | | | | | |
| number | no. | drawing(s) | drwg(s). | Underground telephone line | | | | | |
| outside diameter | OD | east | E | Underground television line | | | | | |
| pavement | pvm. | elevation | elev., el. | Existing power pole | | | | | |
| percent | pct. or % | Engineer(s) | engr(s). | Utility box | | | | | |
| perforate | perf. | End vertical curve elevation | EVCE | Existing ditch | | | | | |
| point of compound curve | PCC | End vertical curve station | EVCS | Existing vegetation | | | | | |
| point of curve | PC | excavation | exc. | Right-of-way line | | | | | |
| point on curve | POC | expansion joint | exp. jt. | Curb and gutter | | | | | |
| point of intersection | PI | finished grade | FG | Ribbon Curb | | | | | |
| point of reverse curve | PRC | foot (measurement) | ft. or ' | Vegetation | | | | | |
| point on tangent | POT | galvanized gage (gauge) | galv. ga. hex. | | | | | | |
| point of tangent | PT | hexagon | ID | | | | | | |
| point of vertical intersection | PVI | inside diameter | Inv. | | | | | | |
| quantities | quant. | invert | IE | | | | | | |
| radius | R | Invert elevation | LT | | | | | | |
| radius point | RAD PT. | left | L | | | | | | |
| required | reqd. | length of curve | LS | | | | | | |
| right | RT | lump sum | m | | | | | | |
| right-of-way | R/W | miles | max. | | | | | | |
| road | rd. | maximum | ' | | | | | | |
| second (angular) | " | minute(s) (angular) minimum | min. | | | | | | |
| sidewalk | s/w | miscellaneous | misc. | | | | | | |
| south | S | monument | mon. | | | | | | |
| specification | spec. | normal crown | nc | | | | | | |
| square | sq | north | N | | | | | | |
| square foot | ft², ft2 or sf | number | no. | | | | | | |
| standard | std | outside diameter | OD | | | | | | |
| station | STA | pavement | pvm. | | | | | | |
| superelevation rate | e | percent | pct. or % | | | | | | |
| symmetrical | sym. | perforate | perf. | | | | | | |
| tangent | tan. | point of compound curve | PCC | | | | | | |
| temporary bench mark | TBM | point of curve | PC | | | | | | |
| top back of curb | TBC | point on curve | POC | | | | | | |
| typical | typ | point of intersection | PI | | | | | | |
| vertical curve length | VC | point of reverse curve | PRC | | | | | | |
| vertical point of intersection | VPI | point on tangent | POT | | | | | | |
| west | W | point of tangent | PT | | | | | | |
| | | point of vertical intersection | PVI | | | | | | |
| | | quantities | quant. | | | | | | |
| | | | | <div> <div>GENERAL NOTES</div> <div> 1. DISPOSAL: All materials designated for removal become the property of the Contractor and are to be disposed of by removing from project site in an environmentally safe manner in accordance with all Local, State and Federal requirements. 2. EXCAVATION: It is estimated that 2604 cy of excavation and 880 cy of embankment will be required for the trail construction; 4232 cy of excavation and 1918 cy of embankment will be required for the parking area construction; and 3891 cy of excavation and 5102 cy of embankment will be required for the access road construction. 3. EMBANKMENT: Estimated embankment quantities are "in-place" without adjustment for shrink/swell. Estimated quantities do not include the embankment volume to replace voids from topsoil removed and conserved during construction. Embankment is considered incidental to the Excavation. 4. EXISTING CONDITIONS: The contractor shall verify all dimensions and conditions in the field prior to construction and ordering materials. The utility locations shown on the plans are approximate and must be verified by the contractor prior to construction. </div> </div> | | | | | |
| | | | | <div> <div> <div>BY</div> <div>DATE</div> <div>REVISION DESCRIPTION</div> </div> <div> <div>DESIGN</div> <div>PROJ. NO.</div> </div> <div> <div>DRAWN</div> <div>DATE</div> </div> <div> <div>CHECKED</div> <div>SURVEYED</div> </div> </div> <div> <div> <div>DJ&A, P.C.</div> <div>CONSULTING ENGINEERS & LAND SURVEYORS</div> <div>3203 Russel Street, Missoula, Montana 59801-8591</div> <div>Phone 406/721-4320 Fax 406/549-6371</div> </div> <div> <div>MT FISH, WILDLIFE & PARKS</div> <div>MILLTOWN STATE PARK</div> </div> <div> <div>GENERAL NOTES</div> <div>LEGEND AND SYMBOLS</div> </div> <div> <div>SHEET</div> <div>OF</div> </div> </div> <div> <div>2</div> <div>77</div> </div> | | | | | |



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| DRAWN | DJL | DATE | 3/2017 |
| CHECKED | CA | SURVEYED | DJ&A |



D&A, P.C.
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MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

SITE PLAN OVERVIEW

| SHEET | |
|-------|----|
| OF | |
| 3 | 77 |

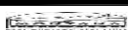
SCHEDULE OF BID ITEMS

| | ITEM NO. | DESCRIPTION | UNIT | Base Bid Schedule | BID ALT. 1 | BID ALT. 2 |
|---------|----------|---|------|----------------------|------------|------------|
| General | 1 | Mobilization, demobilization, bonding and insurance | LS | ALL | ALL | ALL |
| | 2 | Soil erosion and pollution control | LS | ALL | ALL | ALL |
| | 3 | Contractor testing | LS | ALL | ALL | ALL |
| | 4 | Crushed base course | CY | 1,093 | 526 | 214 |
| | 5 | Choker aggregate | CY | 50 | - | 50 |
| | 6 | Subbase course | CY | 40 | 400 | 32 |
| | 7 | Treated aggregate base | CY | 575 | - | - |
| | 8 | Road, trail, and parking excavation | CY | 8,525 | 1,665 | 610 |
| | 9 | Temporary construction access road | LS | - | - | ALL |
| | 10 | Bituminous surface treatment, 1.5 inch thickness | SY | 4,857 | - | - |
| | 11 | Hot asphalt concrete, 2" compacted depth | SF | 56,858 | 28,200 | 13,347 |
| | 12 | Asphalt seal coat | SF | 80,315 | - | - |
| | 13 | Concrete curb and gutter | LF | 762 | 675 | - |
| | 14 | Concrete ribbon curb | LF | 93 | 231 | - |
| | 15 | Concrete, 4" thickness | SF | 7,285 | 4,245 | - |
| | 16 | 2" dia. conduit sleeves crossing under trail | EA | 15 | 3 | 1 |
| | 17 | Topsoil, 4" depth | CY | 1,347 | 335 | 180 |
| | 18 | 18" dia. metal pipe culvert | LF | 128 | - | 0 |
| | 19 | 24" diam metal pipe culvert | LF | - | - | 32 |
| | 20 | 4' precast sump | EA | - | 1 | - |
| | 21 | Riprap, Class 6 | CY | 437 | - | - |
| | 22 | Geotextile separation fabric | SY | - | - | 94 |
| | 23 | Permanent pavement markings, epoxy | LS | ALL | ALL | - |
| | 24 | Sign system | EA | 20 | 10 | - |
| | 25 | Fence, 6' chain link, epoxy coated | LF | 2,349 | - | - |
| | 26 | Install road closure gate | EA | 1 | - | - |
| | 27 | Chain link double swing gate with locking mechanism | EA | 3 | - | - |
| | 28 | Install interpretive displays/signs | EA | 4 | - | 2 |
| | 29 | Pre-cast concrete single vault toilet | EA | - | 1 | - |
| | 30 | Pre-cast concrete double vault toilet | EA | 1 | - | - |
| | 31 | Removable bollard | EA | - | - | 3 |
| | 32 | Equipment Rental, large dump truck | HR | 24 | - | - |
| | 33 | Equipment Rental, excavator with thumb | HR | 24 | - | - |
| | 34 | Willow cuttings, harvest and plant | LF | 150 | - | - |
| | 35 | Seeding, hydroseed method | ACRE | 2.6 | 0.6 | 0.3 |
| | 36 | Site lighting and electric service | LS | ALL | ALL | ALL |
| | 37 | Miscellaneous work | EA | 25,000 | - | - |

| | ITEM NO. | DESCRIPTION | UNIT | Base Bid Schedule | BID ALT. 1 | BID ALT. 2 |
|---------------|----------|---|------|----------------------|------------|------------|
| ARCHITECTURAL | 38 | Precast Concrete Caps | LF | 142 | 0 | 0 |
| | 39 | Tumbled Brick Veneer | SF | 588 | 0 | 0 |
| | 40 | 2x6 T&G Decking on Ceiling with Finish | SF | 1,615 | 0 | 0 |
| | 41 | 1/2" Sheathing | SF | 1,615 | 0 | 0 |
| | 42 | Glulam (8 x 12) with Finish | MBF | 0.91 | 0.00 | 0 |
| | 43 | Curved Glulam (8 x 12) with Finish | MBF | 0.42 | 0.00 | 0 |
| | 44 | Glulam Rafters (2-1.2x9) with Finish | EA | 9.00 | 0.00 | 0 |
| | 45 | Glulam Rafters (2-1.2x12) with Finish | EA | 15.00 | 0.00 | 0 |
| | 46 | Glulam Columns & Hardware (8 x 8) with Finish | MBF | 0.63 | 0.00 | 0 |
| | 47 | Glulam Benches w/ Finish | LF | 37 | 0 | 0 |
| | 48 | 2" Rigid Insulation | SF | 1,615 | 0 | 0 |
| | 49 | 30# Felt | SF | 1,615 | 0 | 0 |
| | 50 | Standing Seam Metal Roofing | SF | 1,615 | 0 | 0 |
| | 51 | Roof Flashing | LF | 237 | 0 | 0 |
| | 52 | Gutters (Galvanized) | LF | 82.5 | 0.0 | 0 |
| | 53 | Downspouts (Galvanized) | LF | 45 | 0 | 0 |
| MRL BRIDGES | 54 | Misc. Fasteners and Steel Connections | LS | 1 | 0 | 0 |
| | 55 | Reinforced Concrete Wall | CY | 55 | 0 | 0 |
| | 56 | Concrete Sidewalk, reinforced | SF | 2,340 | 0 | 0 |
| | 57 | Structure excavation | CY | 0 | 0 | 140 |
| | 58 | Auger cast piling- 2.5 ft | LF | 0 | 0 | 303 |
| | 59 | Precast concrete lagging | SF | 0 | 0 | 651 |
| | 60 | Concrete Drain | LF | 0 | 0 | 76 |
| | 61 | Structural steel - misc. (roof structures) | LS | ALL | 0 | ALL |
| | 62 | Furnish steel pile (HP12x53) | LF | 0 | 0 | 118 |
| | 63 | Furnish steel pile HP14x89) | LF | 0 | 0 | 117 |
| I-90 | 64 | Furnish steel pile (W18x143) | LF | 0 | 0 | 81 |
| | 65 | Fence, 4' chain link, epoxy coated | LF | 0 | 0 | 90 |
| | | | | | | |
| | | | | | | |
| | 66 | Pipe relocate | EA | 0 | 0 | 0 |
| | 67 | Retaining wall - gabion wall | CY | 0 | 0 | 0 |
| | 68 | Fence, 4' chain link, epoxy coated | LF | 0 | 0 | 0 |

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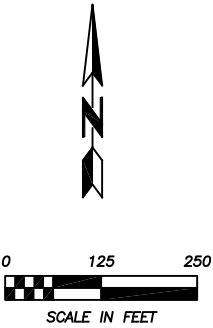
MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

SUMMARY OF ESTIMATED QUANTITIES

| SHEET | |
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| 4 | 77 |

| CONTROL POINT TABLE | | | | |
|---------------------|-----------|-------------|-----------|---------------------------|
| POINT # | ELEVATION | NORTHING | EASTING | DESCRIPTION |
| CP-1 | 3289.28 | 17046205.22 | 917545.87 | FND*-iron-pin |
| CP-2 | 3285.25 | 17045557.59 | 918329.07 | FND-3.25 |
| CP-3 | 3292.07 | 17046184.35 | 917949.66 | FND-AC-2 |
| CP-4 | 3303.71 | 17046058.23 | 920204.94 | FND-AC-3.25 |
| CP-5 | 3270.14 | 17044565.04 | 919684.71 | FND-PLASTIC CAP*-1.25-ypc |
| CP-6 | 3280.63 | 17044969.95 | 918898.57 | FND-AC-2 |
| CP-7 | 3270.36 | 17044493.74 | 919191.25 | FND-5\8 |
| CP-8 | 3277.46 | 17044724.55 | 917633.19 | FND-* 3/4-REBAR |
| CP-10 | 3277.44 | 17044713.08 | 917496.09 | FND-PLASTIC CAP*-1.25 |
| CP-11 | 3277.58 | 17044727.12 | 917656.16 | FND-3/4 |
| CP-12 | 3246.58 | 17044808.06 | 916617.73 | FND-AC-2 |
| CP-13 | 3261.36 | 17044007.88 | 918731.16 | FND-AC-2.5 |
| CP-14 | 3262.85 | 17043856.50 | 918496.37 | FND-AC-2.5 |
| CP-26 | 3276.18 | 17044479.65 | 917872.79 | FND-AC-1.5 |
| CP-62 | 3272.35 | 17044412.26 | 919020.85 | FND-AC-2 |
| CP-63 | 3265.31 | 17044167.37 | 918599.83 | FND-PLASTIC CAP*-1.5ypc |
| CP-102 | 3270.86 | 17044970.14 | 916432.23 | SET-BPC |
| CP-103 | 3270.06 | 17044913.93 | 916634.19 | SET-BPC |
| CP-105 | 3242.76 | 17044586.24 | 916799.52 | SET-BPC |
| CP-106 | 3245.14 | 17044528.14 | 916889.39 | SET-BPC |
| CP-107 | 3252.95 | 17044504.22 | 916990.34 | SET-BPC |
| CP-108 | 3270.10 | 17044372.89 | 917261.11 | SET-BPC |
| CP-109 | 3273.51 | 17044291.71 | 917436.28 | SET-BPC |
| CP-110 | 3235.90 | 17043946.15 | 917449.25 | SET-BPC |
| CP-111 | 3235.83 | 17043809.79 | 917673.26 | SET-BPC |
| CP-112 | 3236.57 | 17043704.48 | 918125.03 | SET-BPC |
| CP-114 | 3271.24 | 17043923.43 | 918596.75 | SET-BPC |
| CP-115 | 3268.35 | 17043963.49 | 918670.23 | SET-BPC |
| CP-118 | 3239.04 | 17044061.98 | 919003.34 | SET-BPC |
| CP-119 | 3242.57 | 17044177.98 | 919147.74 | SET-BPC |
| CP-120 | 3245.61 | 17044268.25 | 919342.68 | SET-BPC |
| CP-121 | 3252.84 | 17044402.96 | 919599.31 | SET-BPC |

| CONTROL POINT TABLE | | | | |
|---------------------|-----------|-------------|-----------|-------------|
| POINT # | ELEVATION | NORTHING | EASTING | DESCRIPTION |
| CP-122 | 3257.89 | 17044438.46 | 919655.16 | SET-BPC |
| CP-123 | 3272.84 | 17044510.10 | 919594.68 | SET-BPC |
| CP-124 | 3277.64 | 17044600.91 | 919509.23 | SET-BPC |
| CP-125 | 3282.69 | 17045043.36 | 919115.22 | SET-BPC |
| CP-126 | 3284.85 | 17045065.90 | 918952.49 | SET-BPC |
| CP-127 | 3284.37 | 17044743.24 | 919156.78 | SET-BPC |
| CP-128 | 3282.91 | 17044505.23 | 919254.06 | SET-BPC |
| CP-129 | 3273.50 | 17044446.27 | 918834.23 | SET-BPC |
| CP-130 | 3273.74 | 17044421.58 | 918617.54 | SET-BPC |
| CP-131 | 3276.77 | 17044577.01 | 918184.57 | SET-BPC |
| CP-132 | 3277.79 | 17044567.54 | 918115.43 | SET-BPC |
| CP-133 | 3284.40 | 17044562.24 | 918015.14 | SET-BPC |
| CP-134 | 3284.22 | 17044601.17 | 917821.78 | SET-BPC |
| CP-135 | 3283.11 | 17044629.49 | 917593.74 | SET-BPC |
| CP-136 | 3270.25 | 17044625.02 | 917798.44 | SET-BPC |
| CP-137 | 3311.10 | 17044864.42 | 917716.26 | SET-BPC |
| CP-138 | 3277.42 | 17045269.67 | 917229.90 | SET-BPC |
| CP-139 | 3276.49 | 17045406.15 | 916912.92 | SET-BPC |
| CP-140 | 3277.88 | 17045091.65 | 917414.17 | SET-BPC |
| CP-141 | 3276.38 | 17045460.27 | 916487.95 | SET-BPC |
| CP-142 | 3314.14 | 17044706.49 | 917928.55 | SET-BPC |
| CP-143 | 3313.81 | 17044375.61 | 918134.18 | SET-BPC |
| CP-144 | 3310.57 | 17044282.12 | 918363.19 | SET-BPC |
| CP-145 | 3306.10 | 17044135.82 | 918488.69 | SET-BPC |
| CP-146 | 3304.68 | 17044038.90 | 918422.37 | SET-BPC |
| CP-147 | 3281.28 | 17044630.72 | 917164.67 | SET-BPC |
| CP-148 | 3280.42 | 17044622.74 | 916930.69 | SET-BPC |
| CP-149 | 3264.19 | 17044641.60 | 916865.00 | SET-BPC |
| CP-150 | 3275.01 | 17044497.42 | 917751.85 | SET-BPC |
| CP-282 | 3287.63 | 17045349.40 | 918967.59 | SET-BPC |



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| DRAWN | DJL | DATE | 3/2017 |
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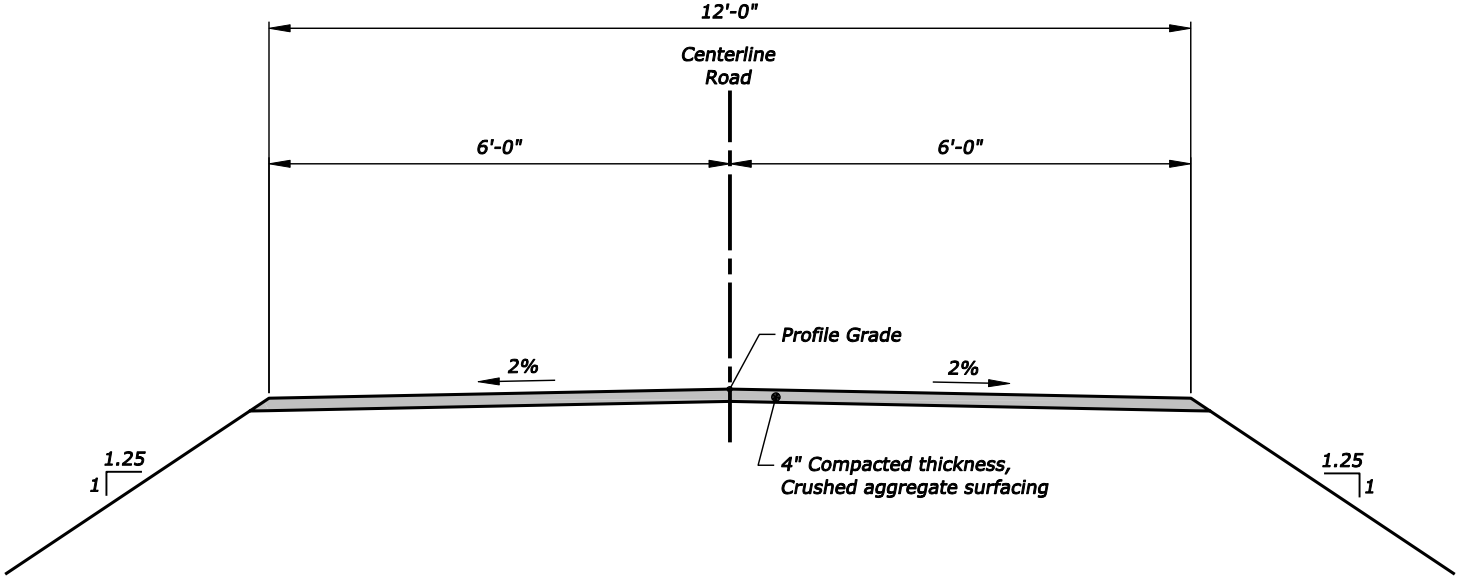
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Phone 406/721-4320 Fax 406/648-8371



MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

PROJECT CONTROL POINTS

| SHEET | |
|-------|----|
| 6 | 77 |



TEMPORARY ROAD TYPICAL SECTION

| BY | DATE | REVISION DESCRIPTION |
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DJ&A, P.C.

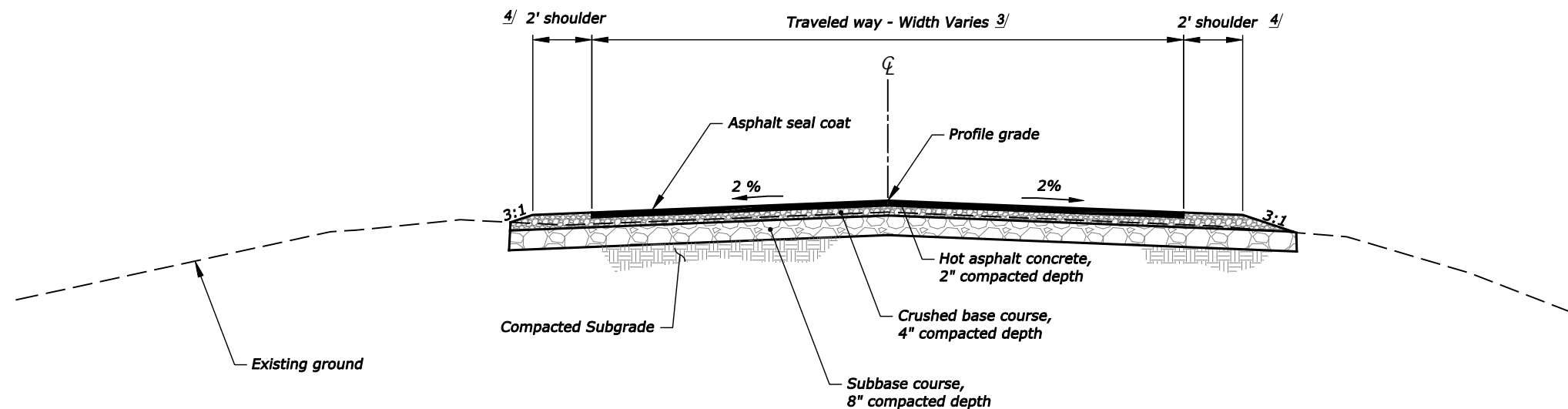
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| TYPICAL SECTIONS | |
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| SHEET | |
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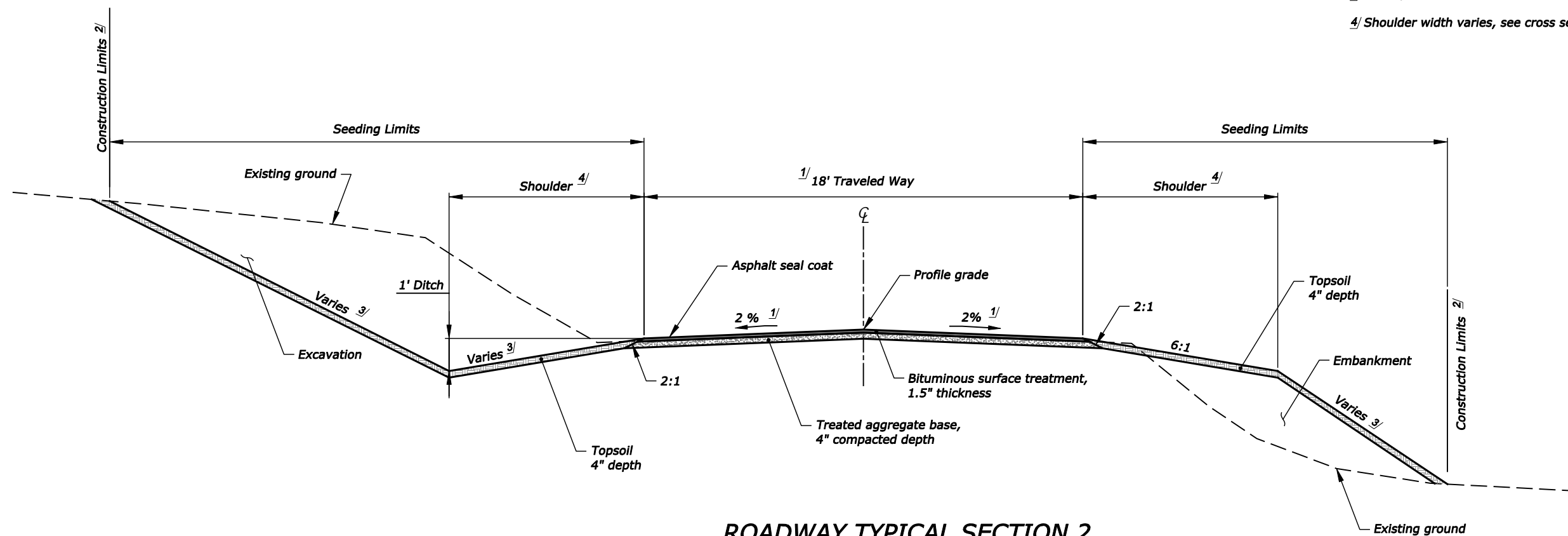


ROADWAY TYPICAL SECTION 1

STA 100+04 to 100+55

FOOTNOTE:

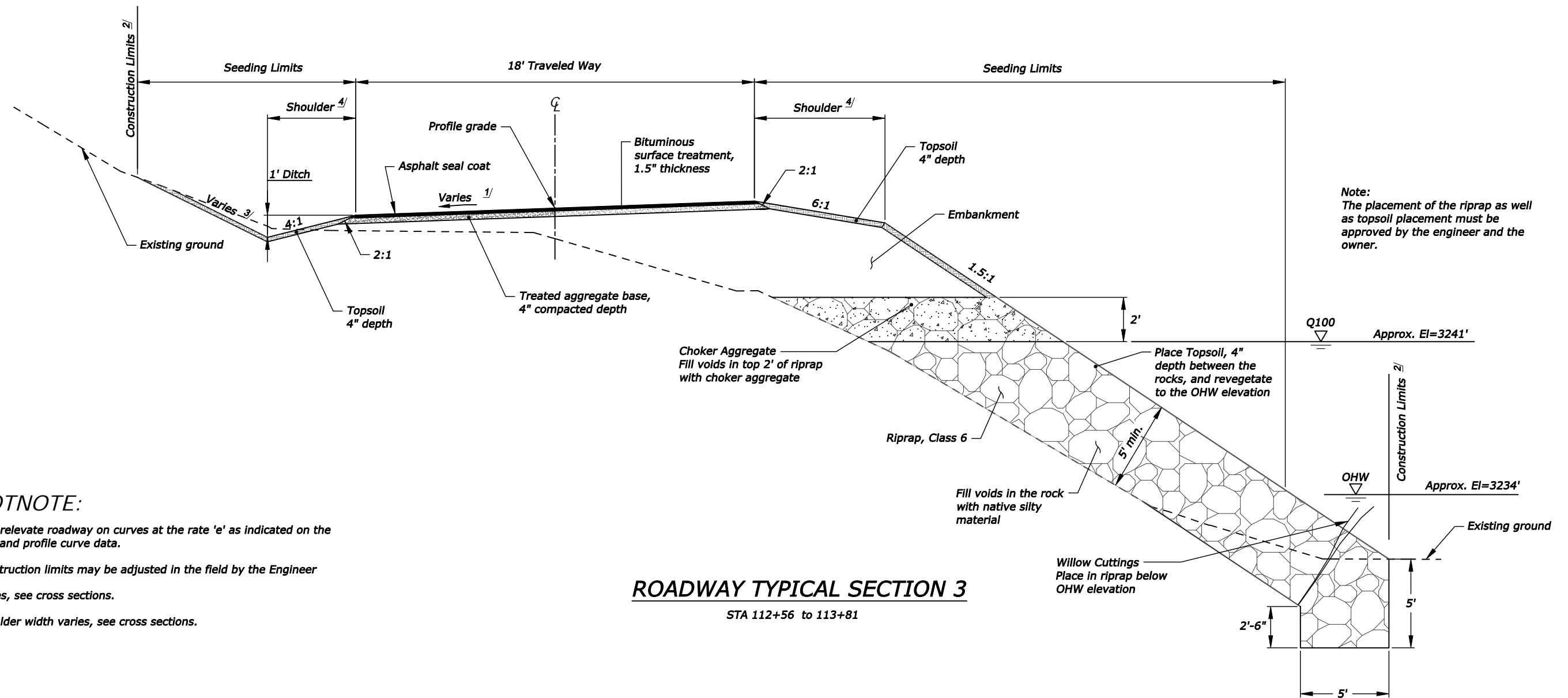
- 1/ Superelevate roadway on curves at the rate 'e' as indicated on the plan and profile curve data.
- 2/ Construction limits may be adjusted in the field by the Engineer.
- 3/ Varies, see cross sections.
- 4/ Shoulder width varies, see cross sections.



ROADWAY TYPICAL SECTION 2

STA 100+55 to 112+56
STA 113+81 to 124+08.49

| | | | | | | | | | | | |
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| BY | DATE | REVISION DESCRIPTION | DESIGN | DJL | PROJ. NO. | 5943 |  | MT FISH, WILDLIFE & PARKS MILLTOWN STATE PARK | TYPICAL SECTIONS | SHEET | |
| | | | DRAWN | DJL | DATE | 3/2017 | | | | OF | |
| | | | CHECKED | CA | SURVEYED | DJ&A | | | | 8 | 77 |
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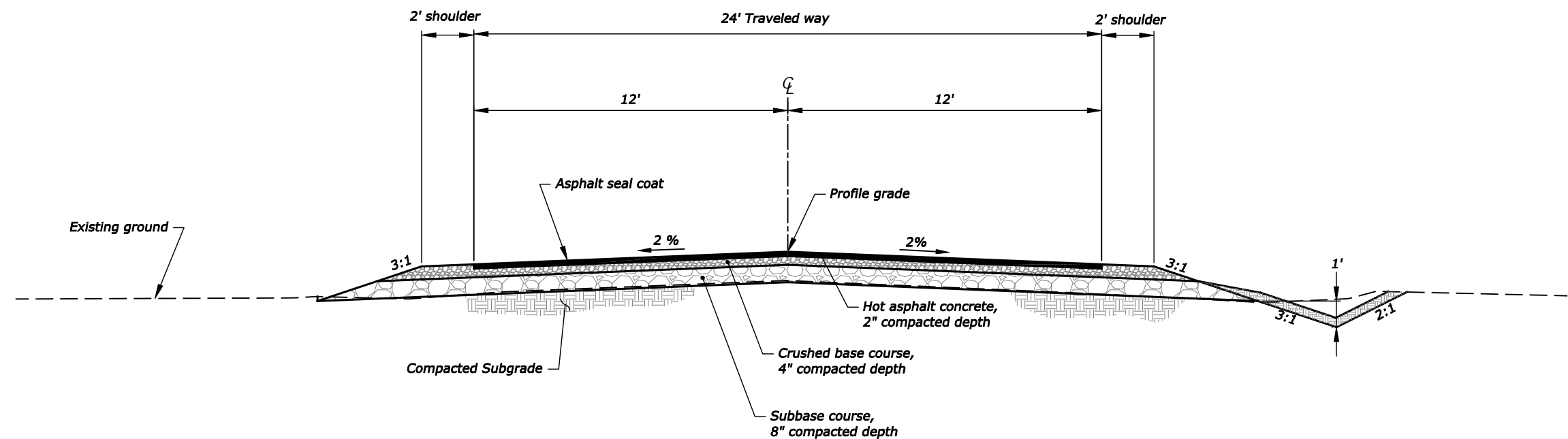
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| DESIGN | DJL | PROJ. NO. | 5943 |
| DRAWN | DJL | DATE | 3/2017 |
| CHECKED | CA | SURVEYED | DJL&A |



MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

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| TYPICAL SECTIONS | |
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| 9 | 77 |



ROADWAY TYPICAL SECTION 4
STA 200+00 TO 205+62.48

NOTE:
Construction limits may be adjusted in the field by the Engineer.

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| DRAWN | DJL | DATE | 3/2017 |
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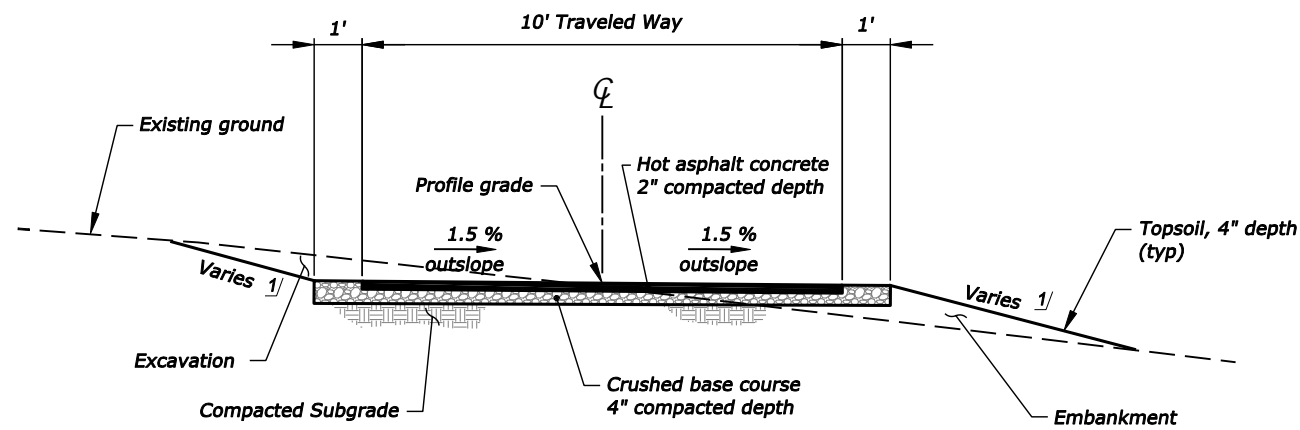
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MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

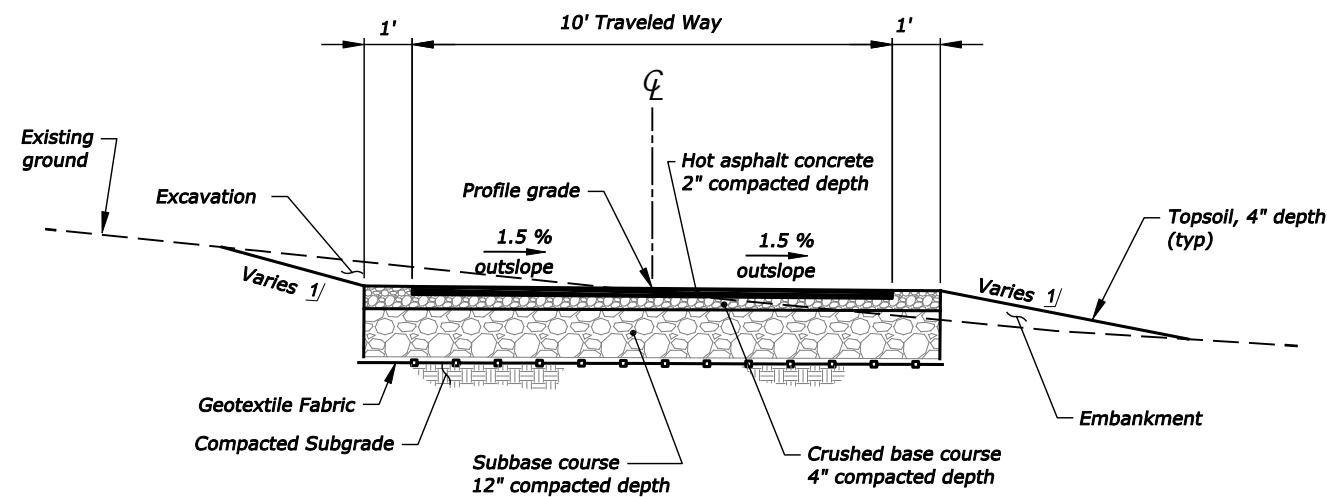
TYPICAL SECTIONS

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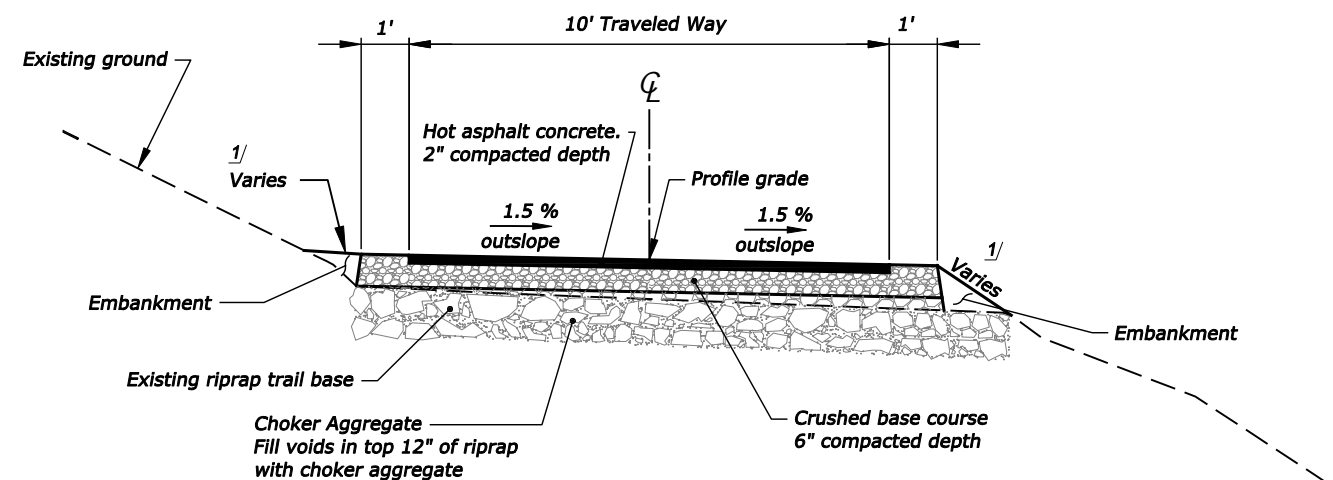
TRAIL TYPICAL SECTION 1A

TRAIL A Sta 200+00 to 213+00
 213+00 to 217+50 not included in this contract
 TRAIL A Sta 218+70 to 224+80
 TRAIL A Sta 225+80 to 230+88.12



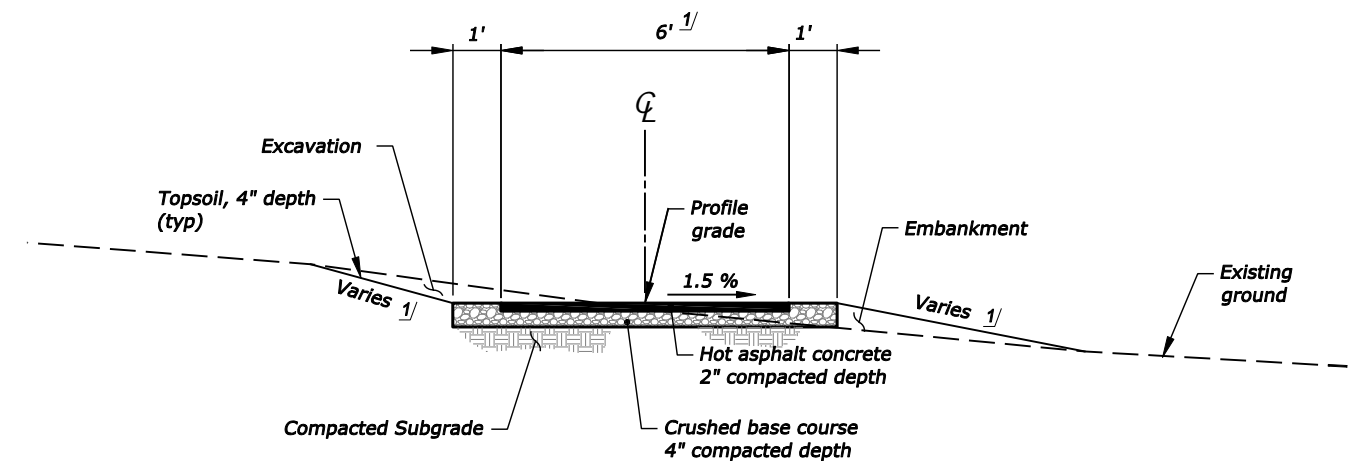
TRAIL TYPICAL SECTION 1B

TRAIL A Sta 217+50 to 218+00
 218+00 to 218+70 not included in this contract



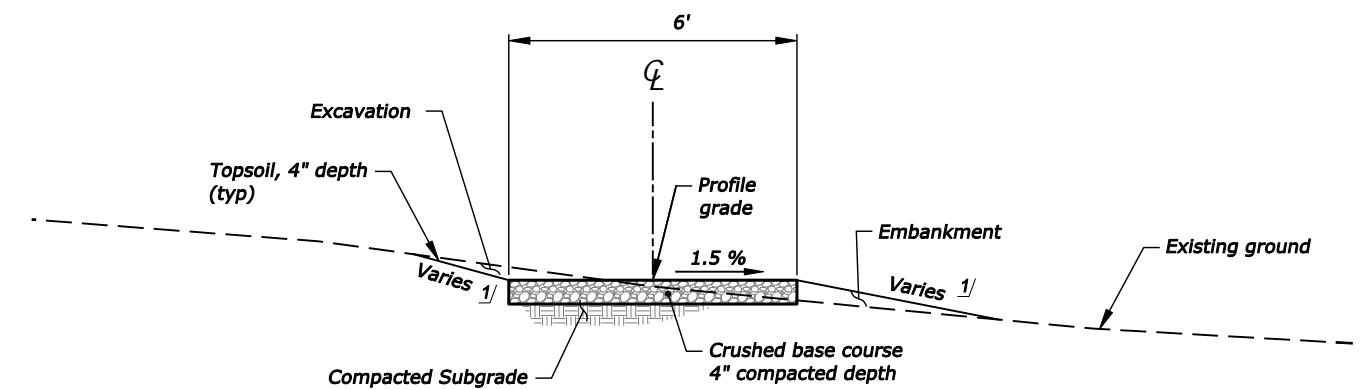
TRAIL TYPICAL SECTION 1C

TRAIL A Sta 224+80 to 225+80



TRAIL TYPICAL SECTION 2

TRAIL F 2/
 TRAIL G 2/



TRAIL TYPICAL SECTION 3

TRAIL H

FOOTNOTE:

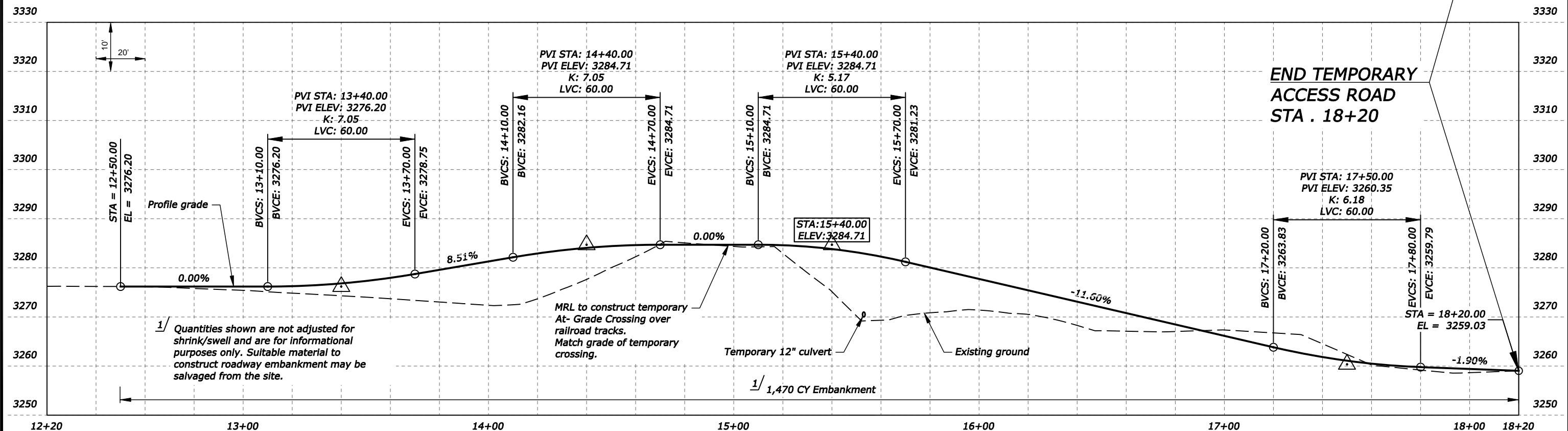
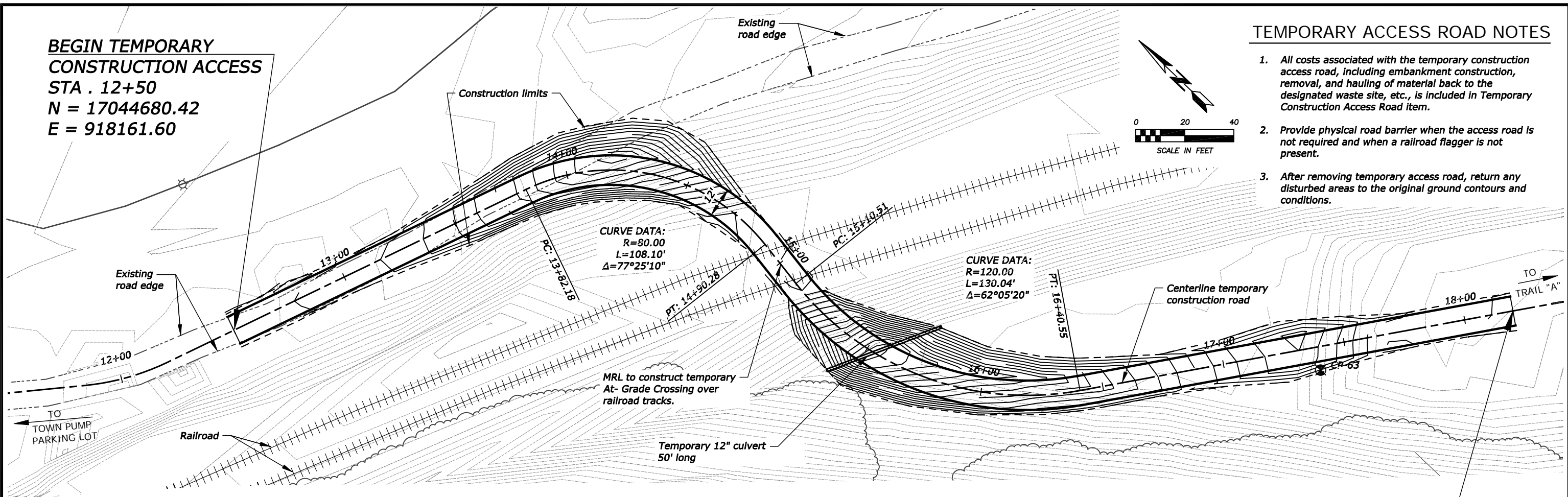
- 1/ See cross sections
 2/ See structural drawings Sheets ## -S10 for retaining wall typical sections

| BY | DATE | REVISION DESCRIPTION | DESIGN | PROJ. NO. | MT FISH, WILDLIFE & PARKS | SHEET |
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| | | | DJL | 5943 | MILLTOWN STATE PARK | 11 |
| | | | DJL | 3/2017 | | 77 |
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**BEGIN TEMPORARY
CONSTRUCTION ACCESS
STA . 12+50**
N = 17044680.42
E = 918161.60

TEMPORARY ACCESS ROAD NOTES

1. All costs associated with the temporary construction access road, including embankment construction, removal, and hauling of material back to the designated waste site, etc., is included in Temporary Construction Access Road item.
2. Provide physical road barrier when the access road is not required and when a railroad flagger is not present.
3. After removing temporary access road, return any disturbed areas to the original ground contours and conditions.



1/ Quantities shown are not adjusted for shrink/swell and are for informational purposes only. Suitable material to construct roadway embankment may be salvaged from the site.

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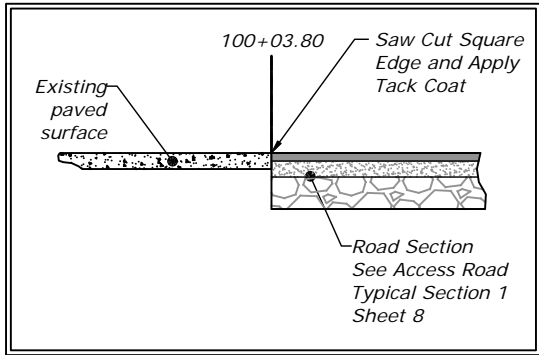
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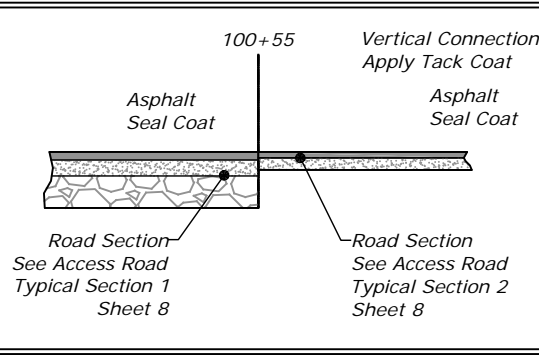
MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

TEMPORARY CONSTRUCTION ACCESS ROAD
PLAN & PROFILE

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| 12 | 77 |

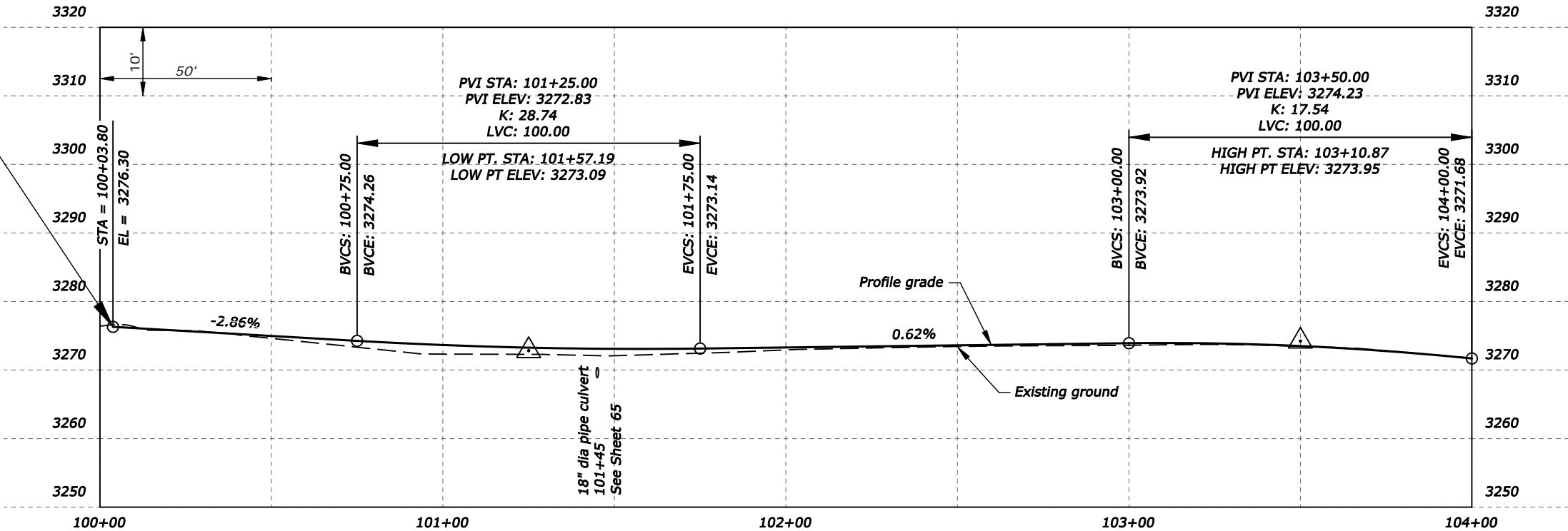
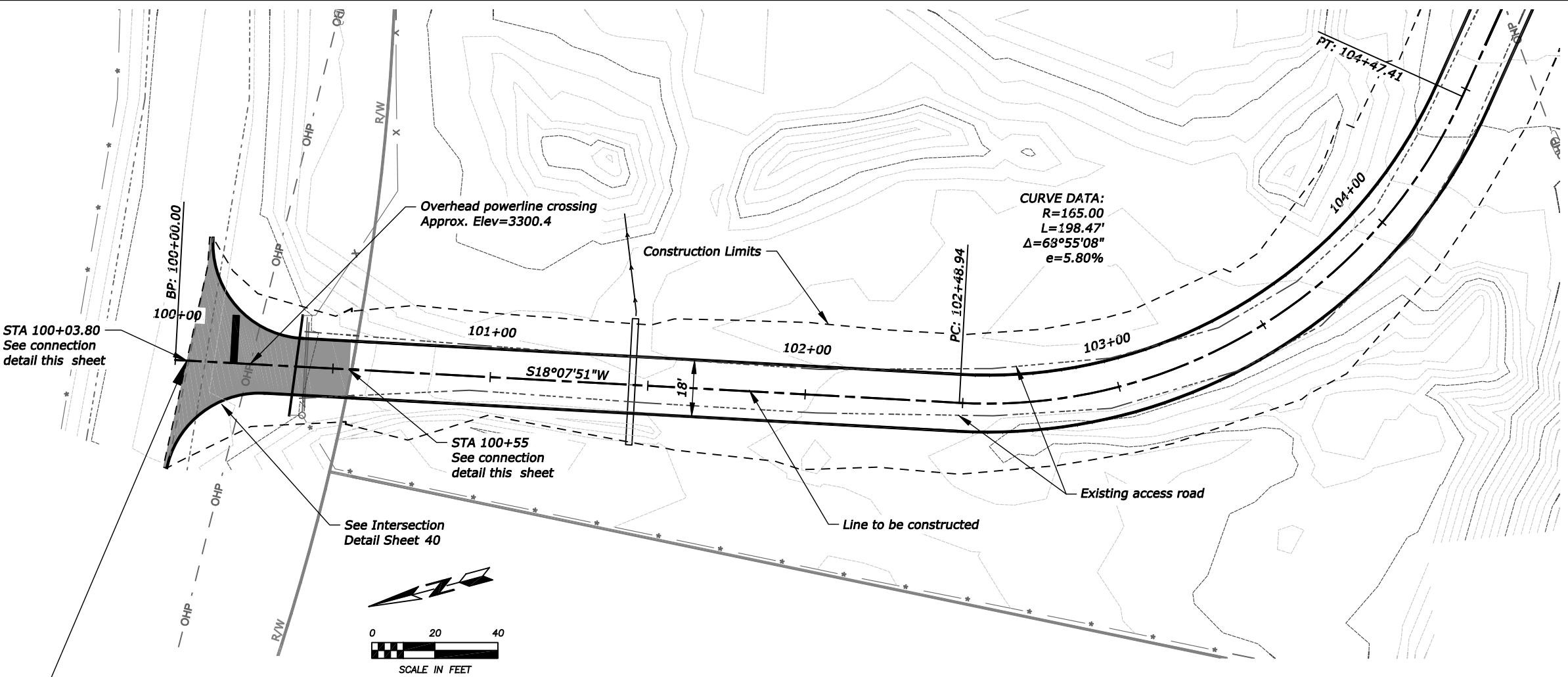


CONNECTION DETAIL



CONNECTION DETAIL

**BEGIN ACCESS ROAD
RECONSTRUCTION
STA . 100+03.80
N. 170455210.82
E. 916330.99**



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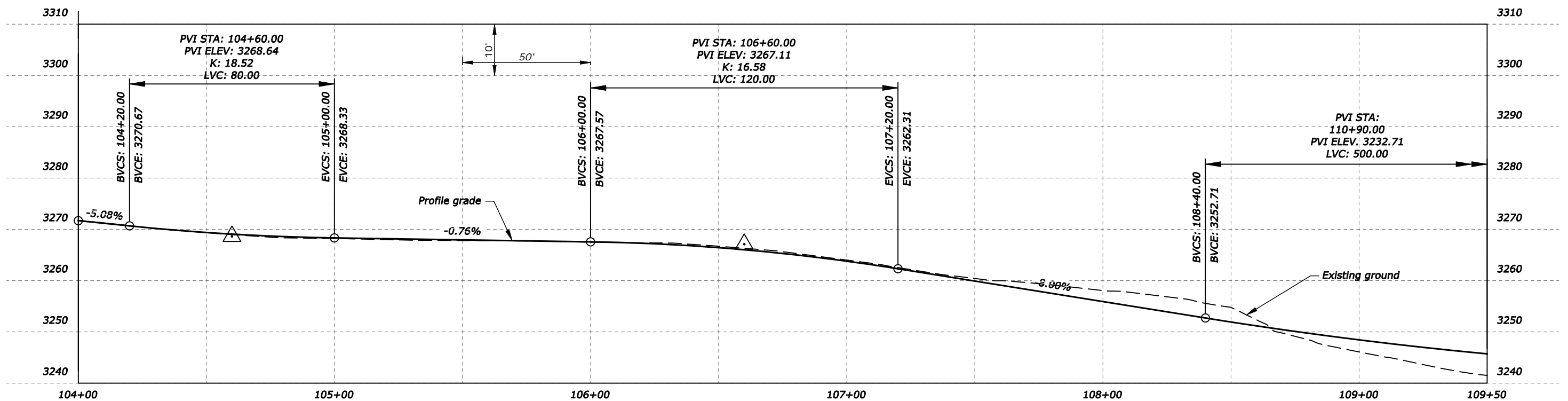
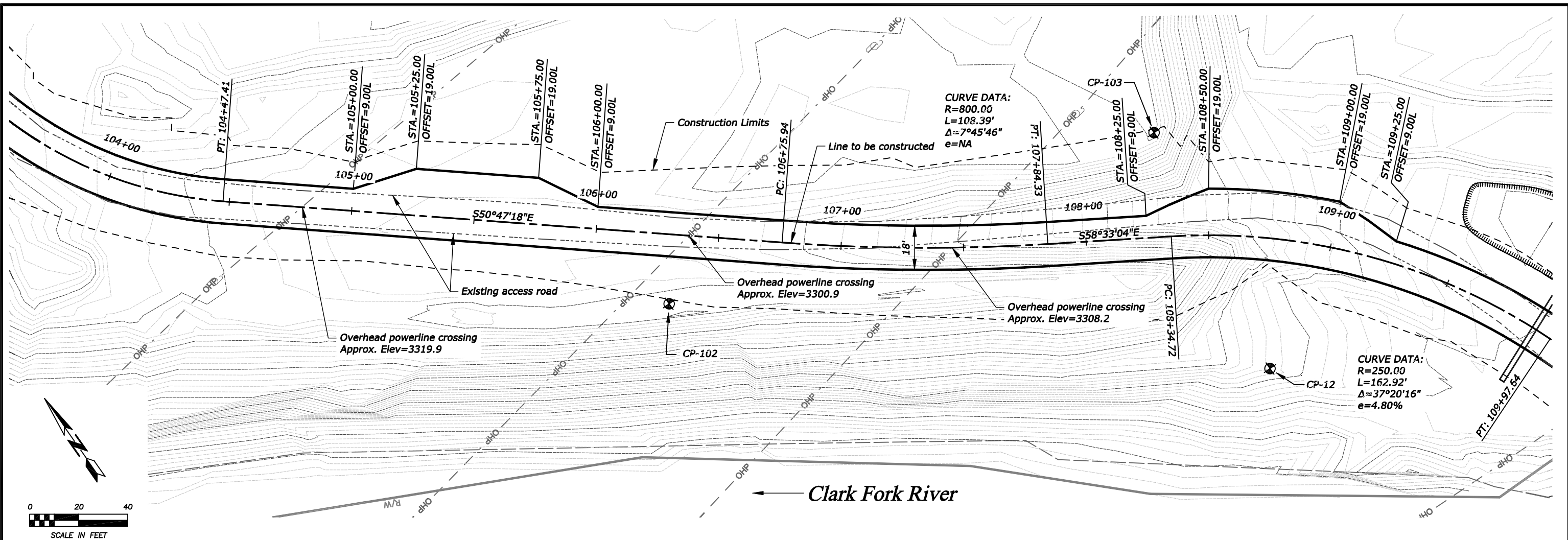
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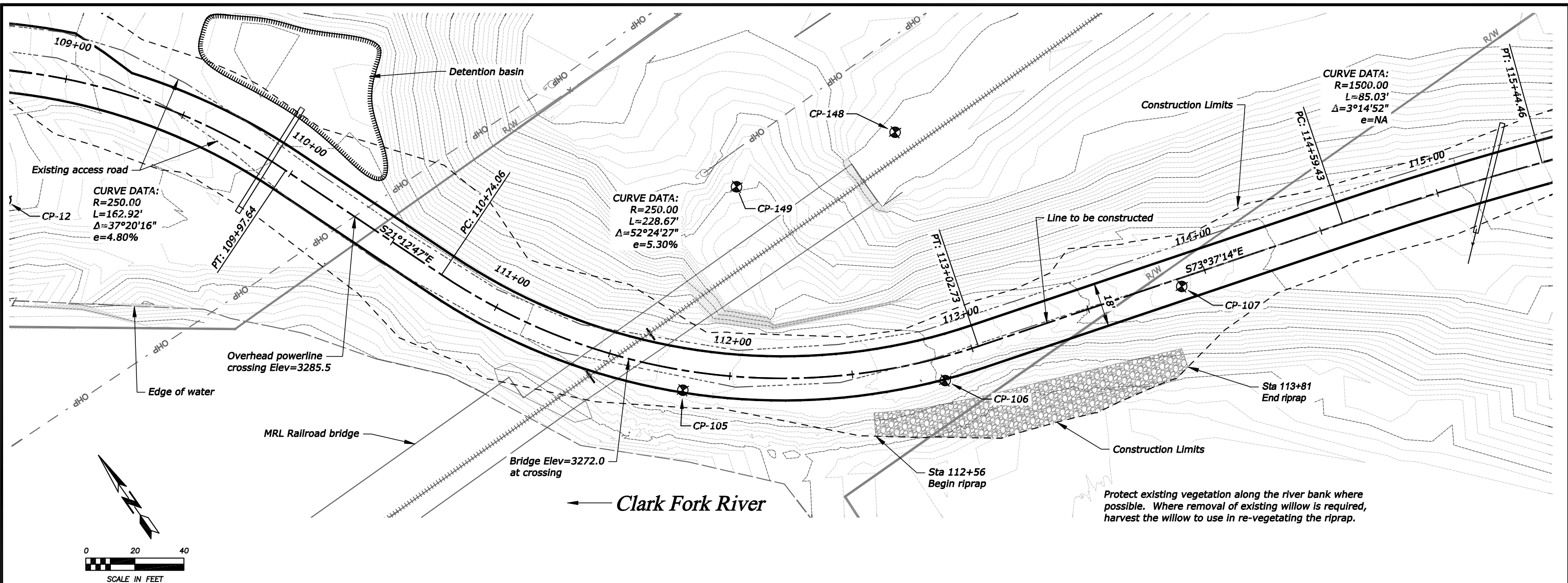
MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

ACCESS ROAD
PLAN & PROFILE

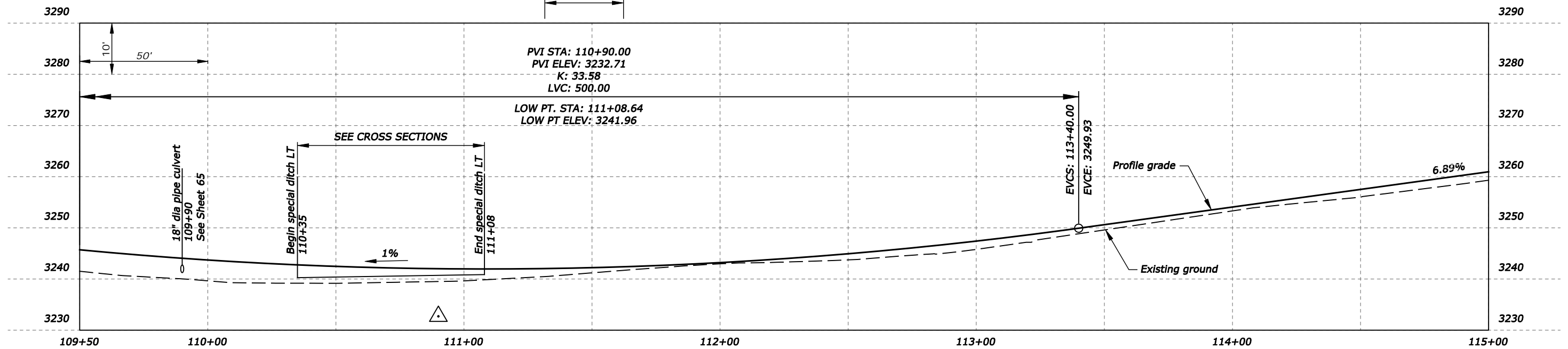
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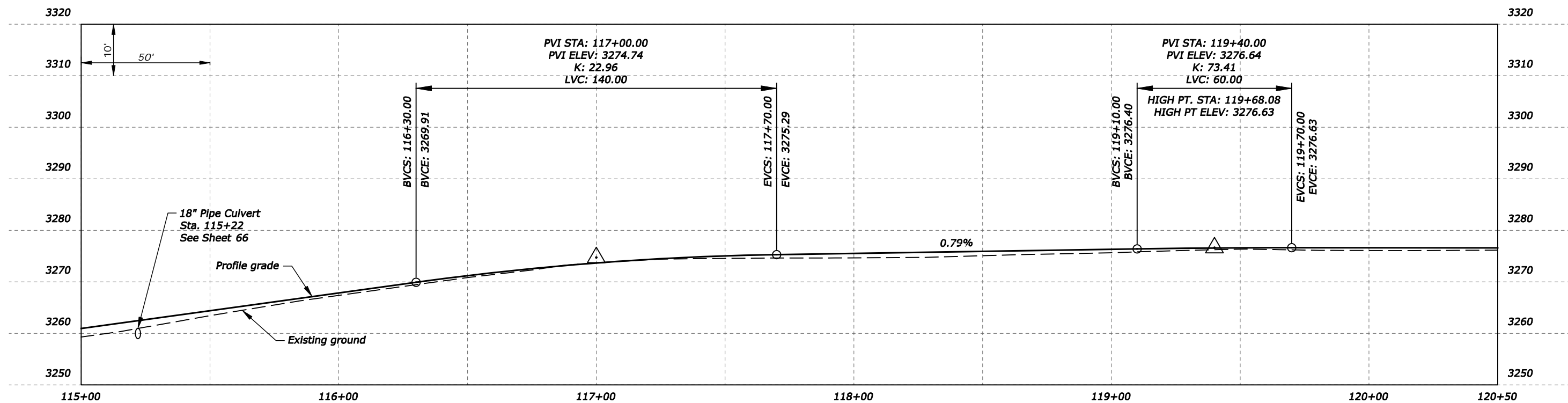
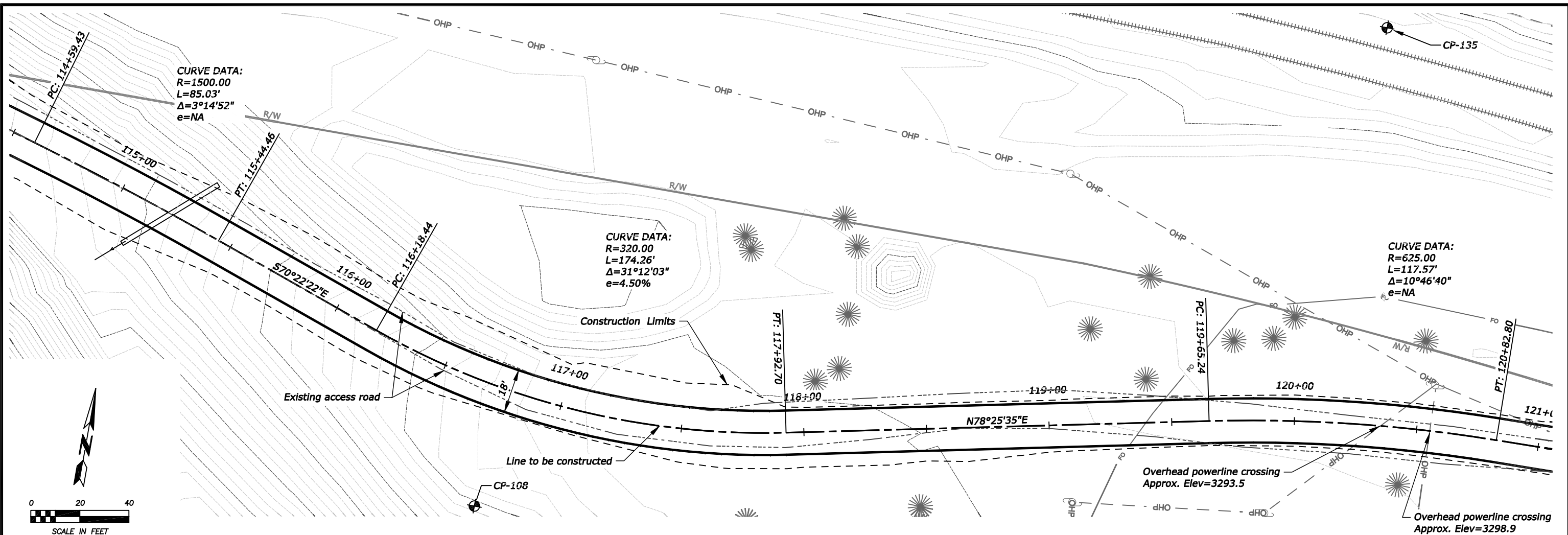
| BY | DATE | REVISION DESCRIPTION | DESIGN | DJL | PROJ. NO. | 5943 | D&A, P.C. | | MT FISH, WILDLIFE & PARKS | | ACCESS ROAD PLAN & PROFILE | | SHEET | |
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| | | | DRAWN | DJL | DATE | 3/2017 | CONSULTING ENGINEERS & LAND SURVEYORS | | MILLTOWN STATE PARK | | | | 14 | 77 |
| | | | CHECKED | CA | SURVEYED | DJ&A | 3203 Russell Street, Missoula, Montana 59801-8591 | | | | | | | |
| | | | | | | | Phone 406/721-4320 Fax 406/648-8371 | | | | | | | |



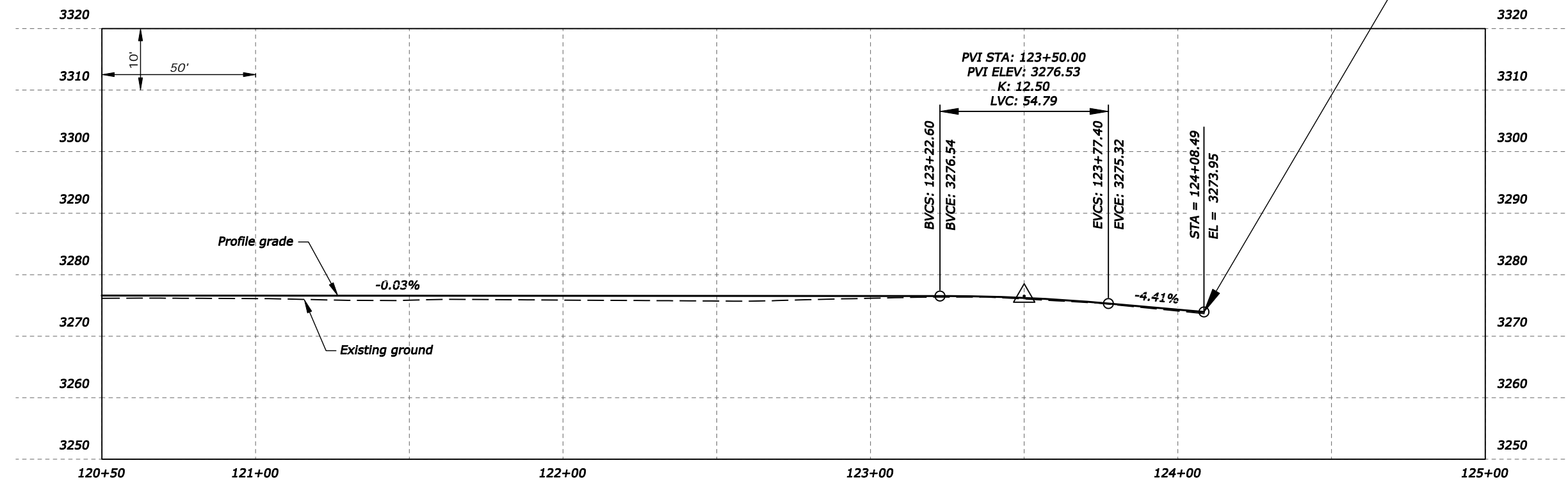
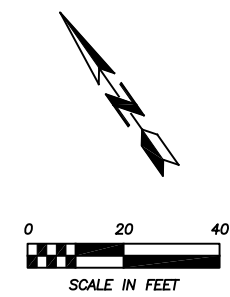
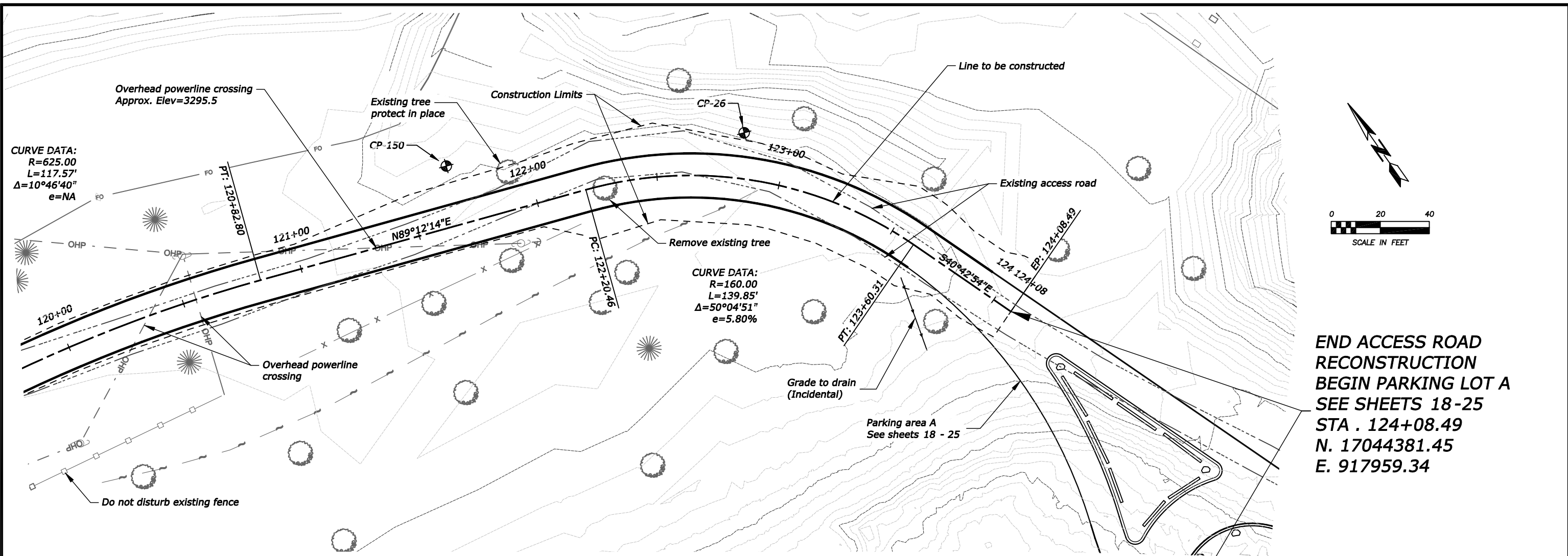
MRL BRIDGE CROSSING
SEE SHEETS S15-S16



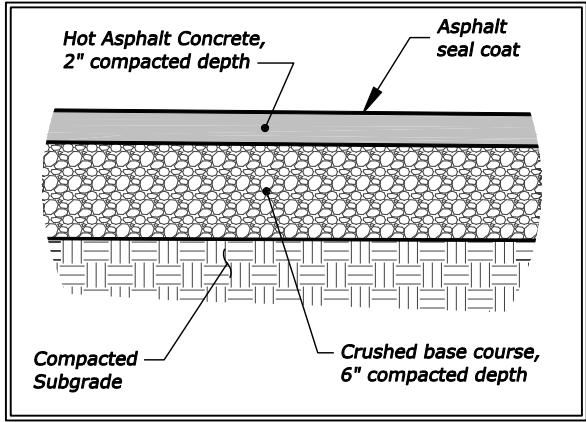
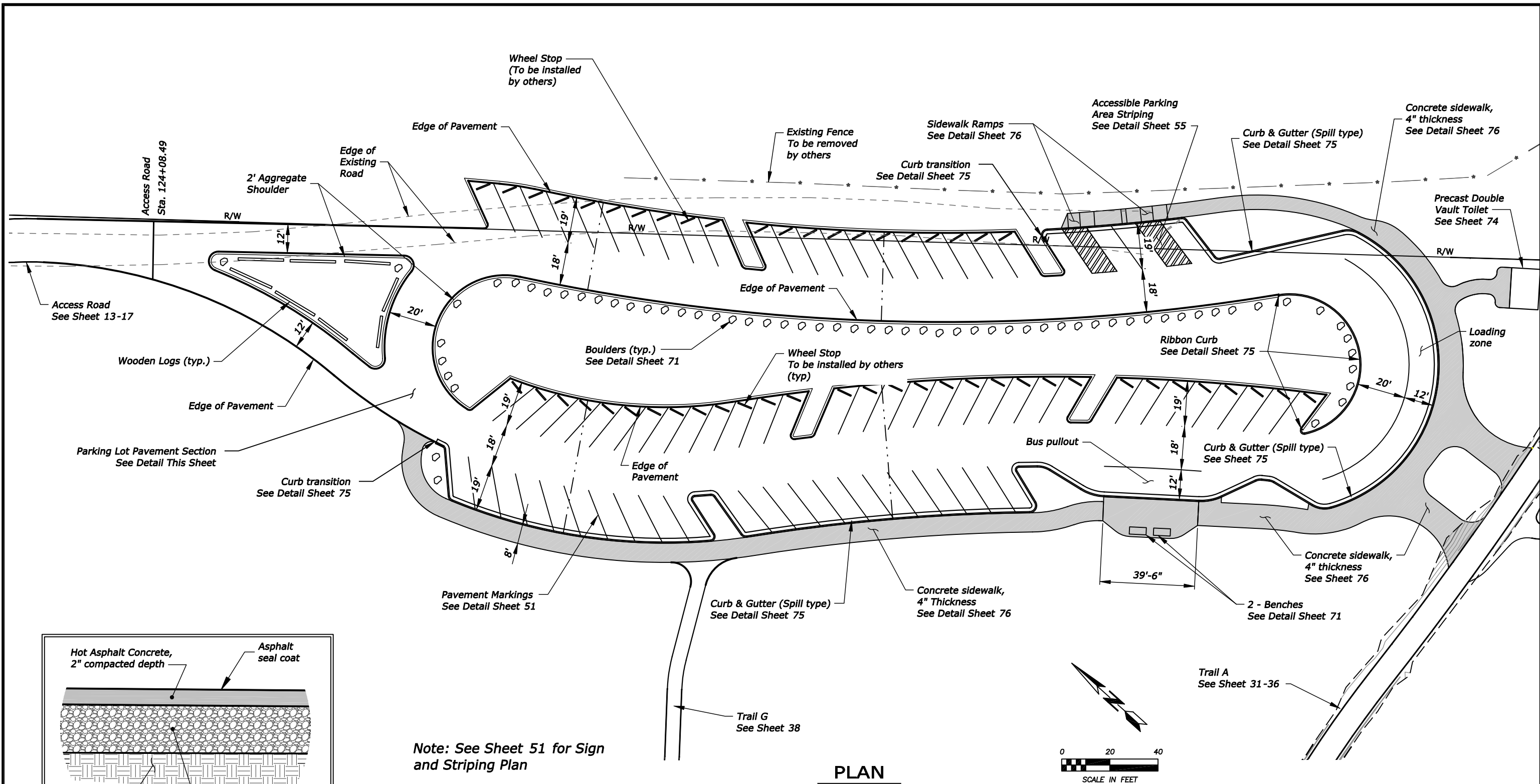
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| BY | | | DATE | | | REVISION DESCRIPTION | | | DESIGN <u>DJL</u> PROJ. NO. <u>5943</u> | | | <div><div>CONSULTING ENGINEERS & LAND SURVEYORS 3203 Russell Street, Missoula, Montana 59801-8591 Phone 406/721-4320 Fax 406/648-8371</div></div> | | | <div><div>MT FISH, WILDLIFE & PARKS MILLTOWN STATE PARK</div></div> | | | ACCESS ROAD PLAN & PROFILE | | | SHEET | |
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| BY | | | DATE | | | REVISION DESCRIPTION | | | DESIGN | | | D.J.L. | | | PROJ. NO. | | | 5943 | | | <div><div>CONSULTING ENGINEERS & LAND SURVEYORS 3203 Russell Street, Missoula, Montana 59701-6591 Phone 408/721-4320 Fax 408/549-8371</div></div> | | | <div><div>MT FISH, WILDLIFE & PARKS</div><div>MILLTOWN STATE PARK</div></div> | | | <div>ACCESS ROAD PLAN & PROFILE</div> | | | SHEET | |
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Note: See Sheet 51 for Sign and Striping Plan

PLAN

PARKING LOT PAVEMENT SECTION

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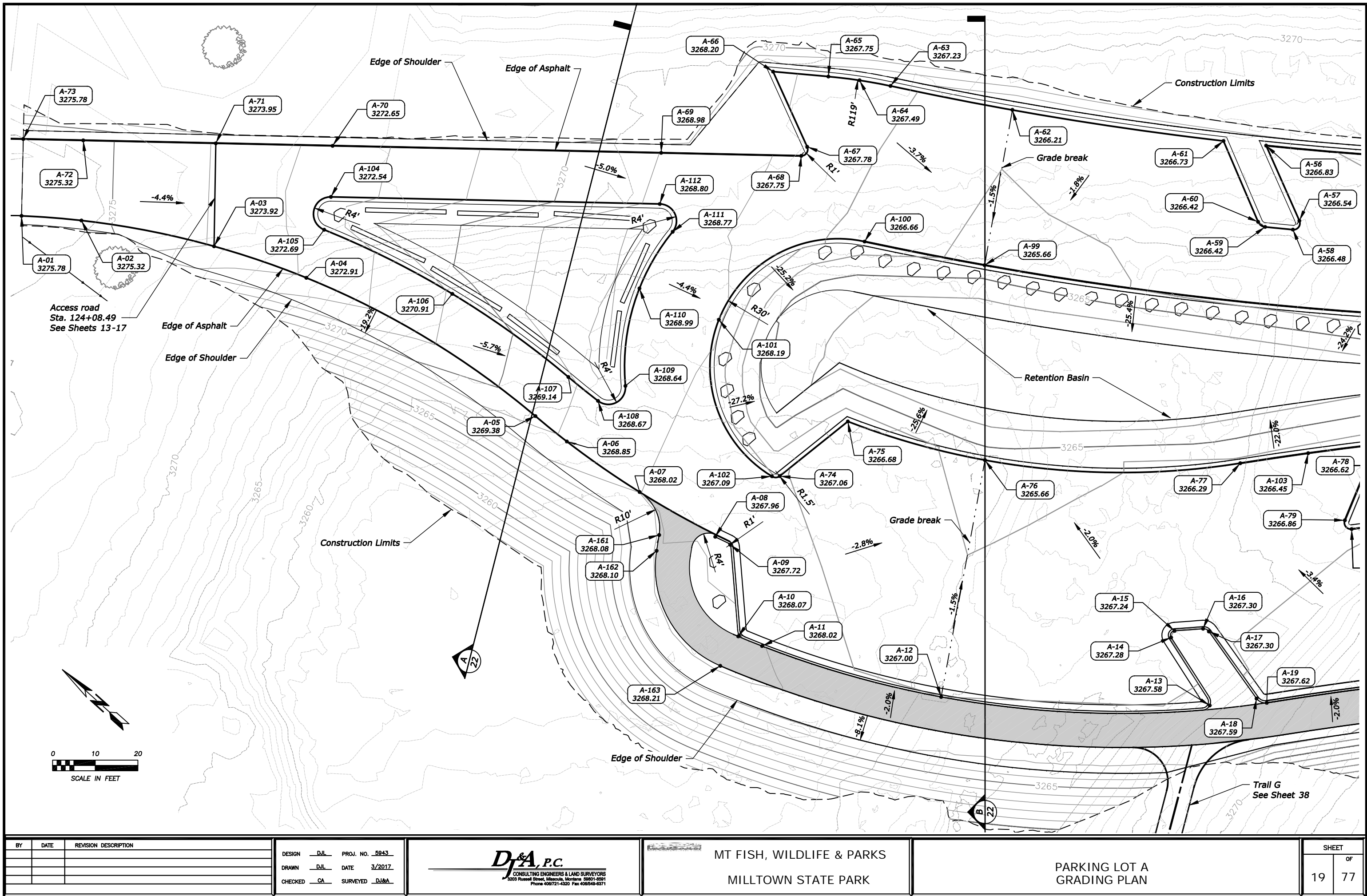
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MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

PARKING LOT A LAYOUT

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| 18 | 77 |



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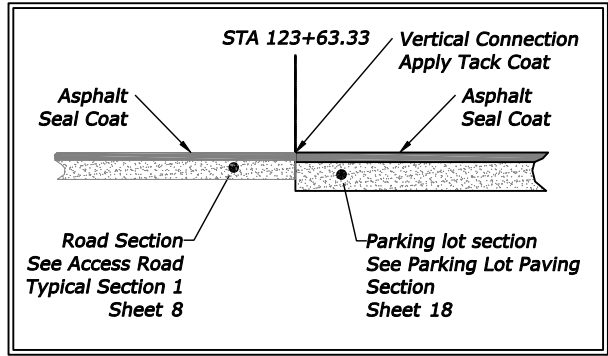
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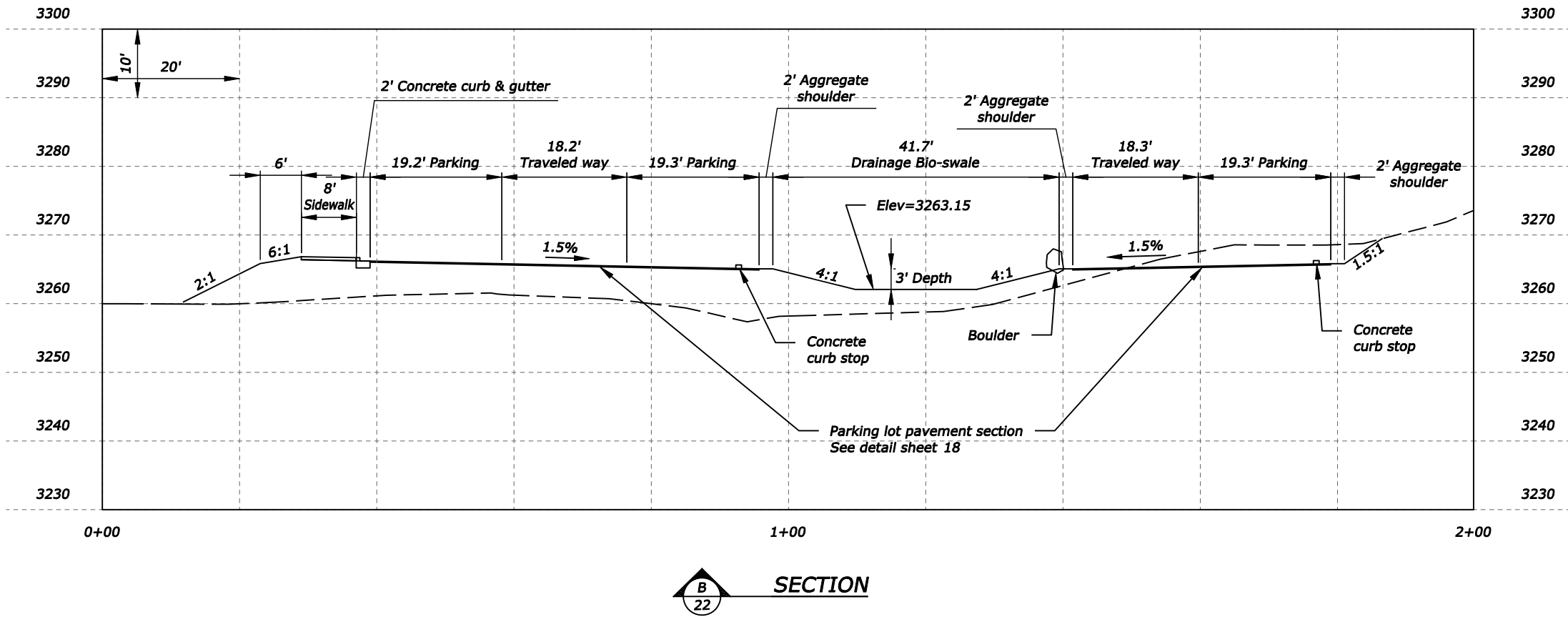
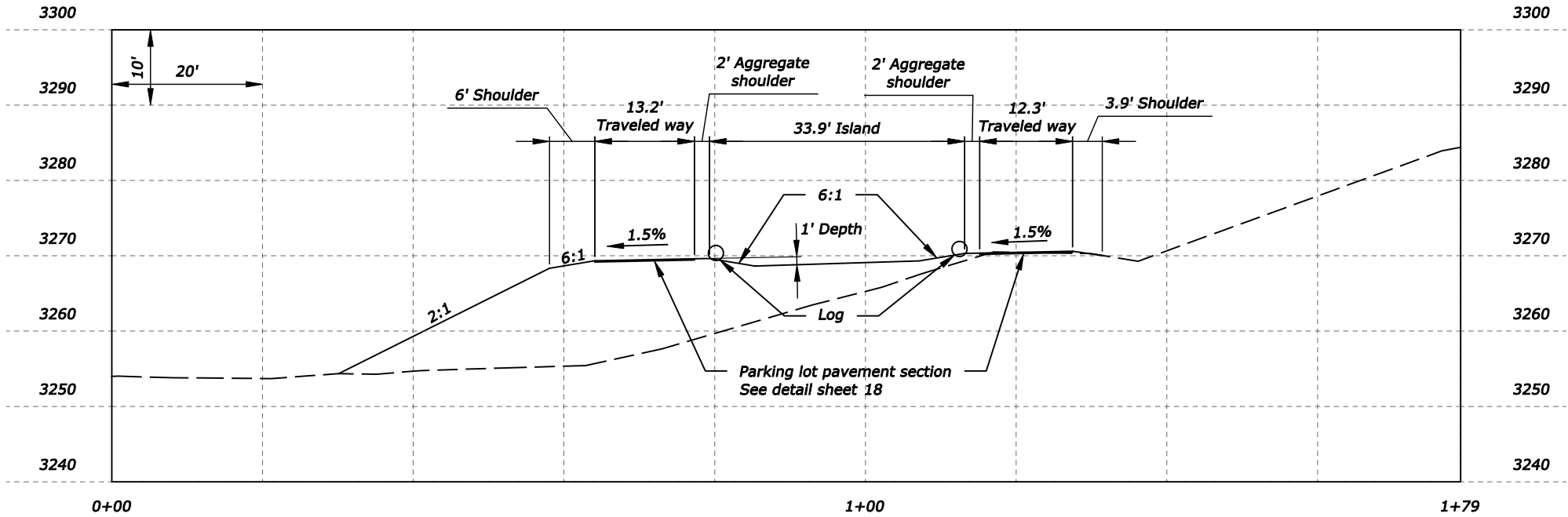
MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

PARKING LOT A
GRADING PLAN

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CONNECTION DETAIL



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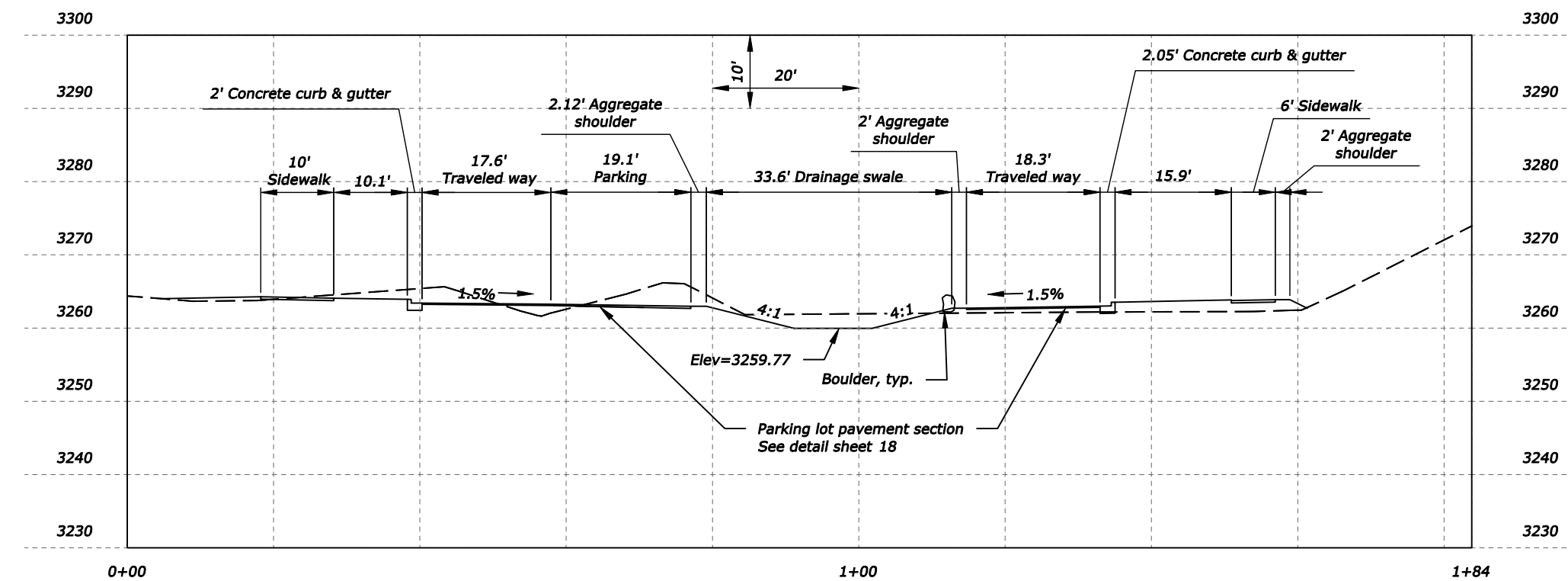
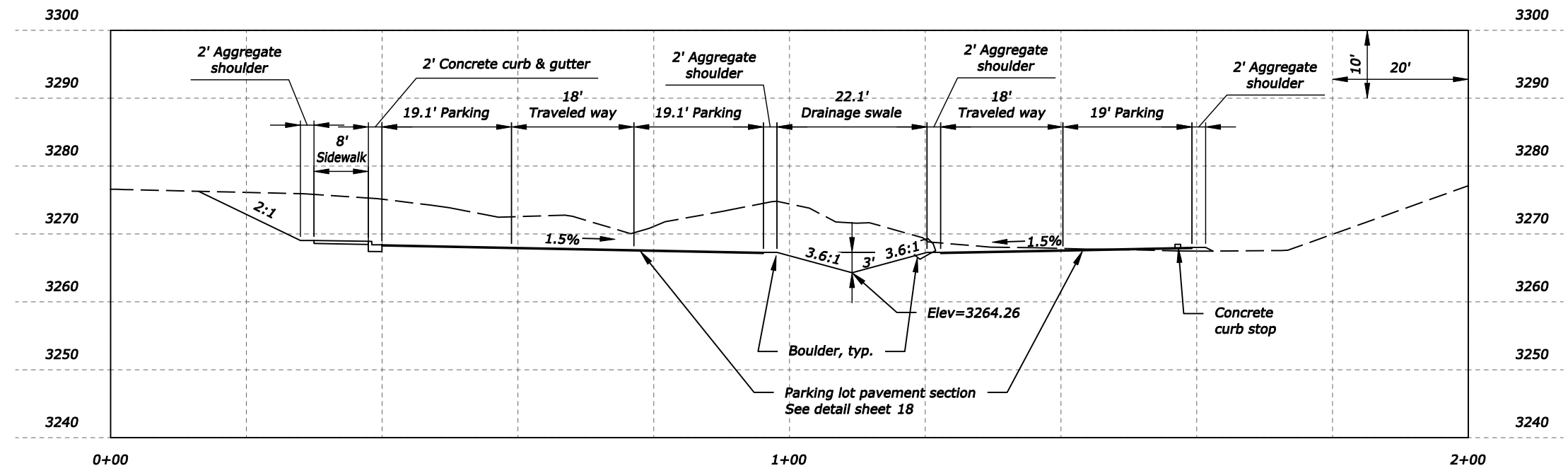
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MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

PARKING LOT A
SECTIONS

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DESIGN DJL PROJ. NO. 5943
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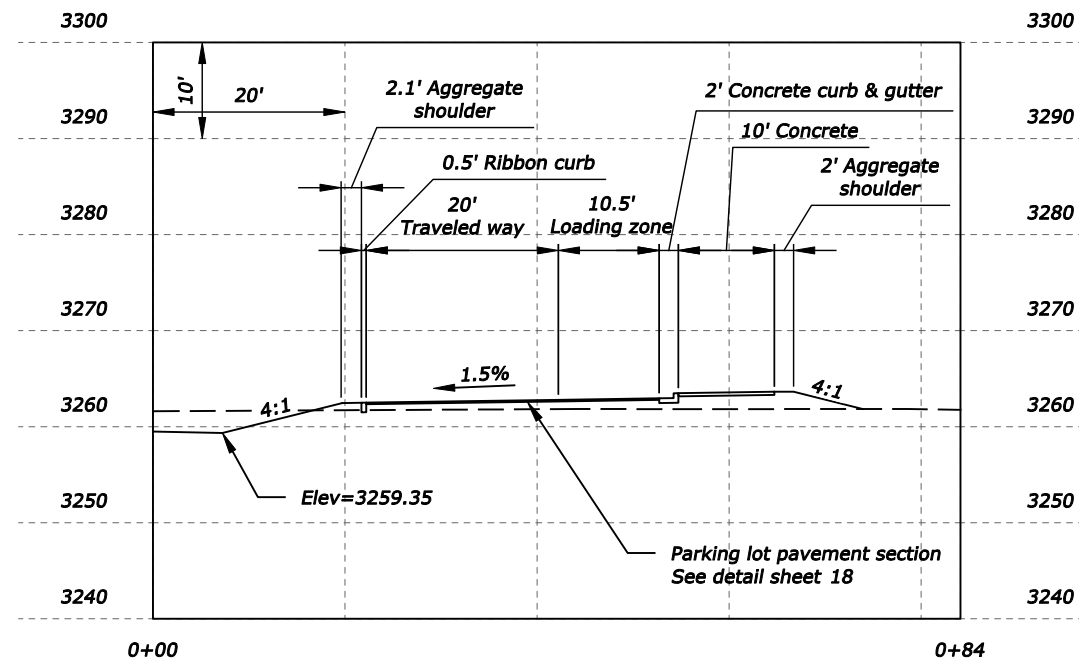
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MT FISH, WILDLIFE & PARKS
 MILLTOWN STATE PARK

PARKING LOT A
 SECTIONS

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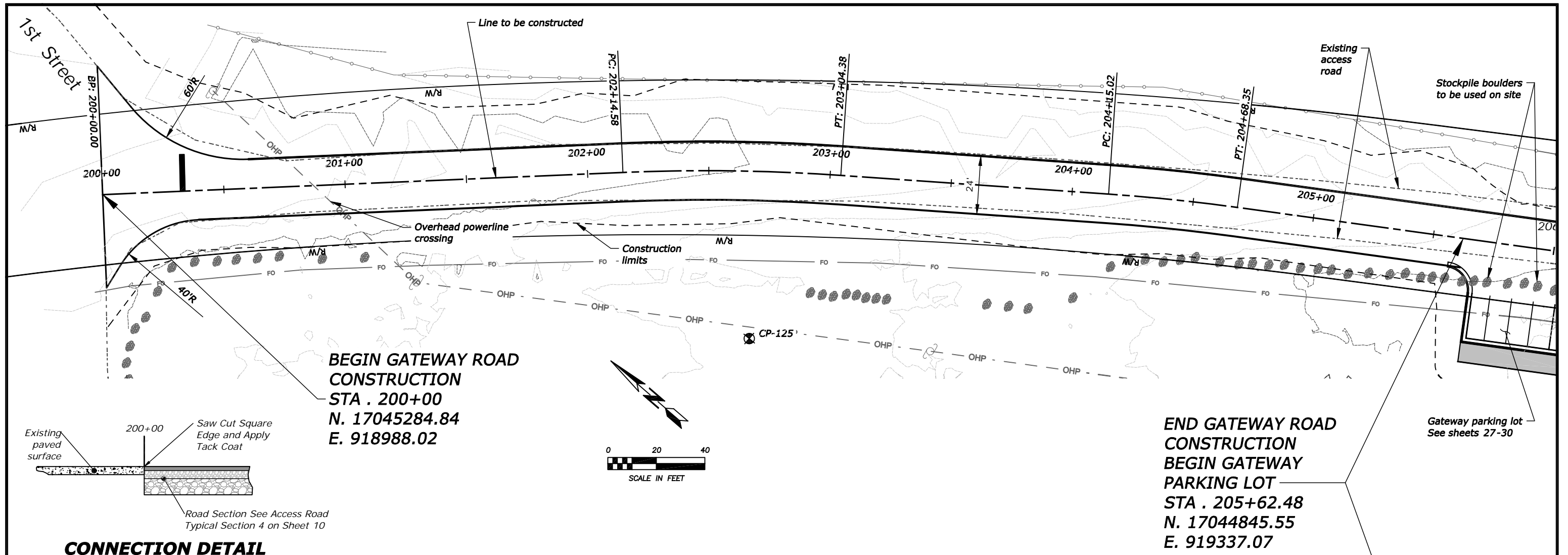
D&A, P.C.
CONSULTING ENGINEERS & LAND SURVEYORS
3203 Russell Street, Missoula, Montana 59801-8591
Phone 406/721-4320 Fax 406/648-8371



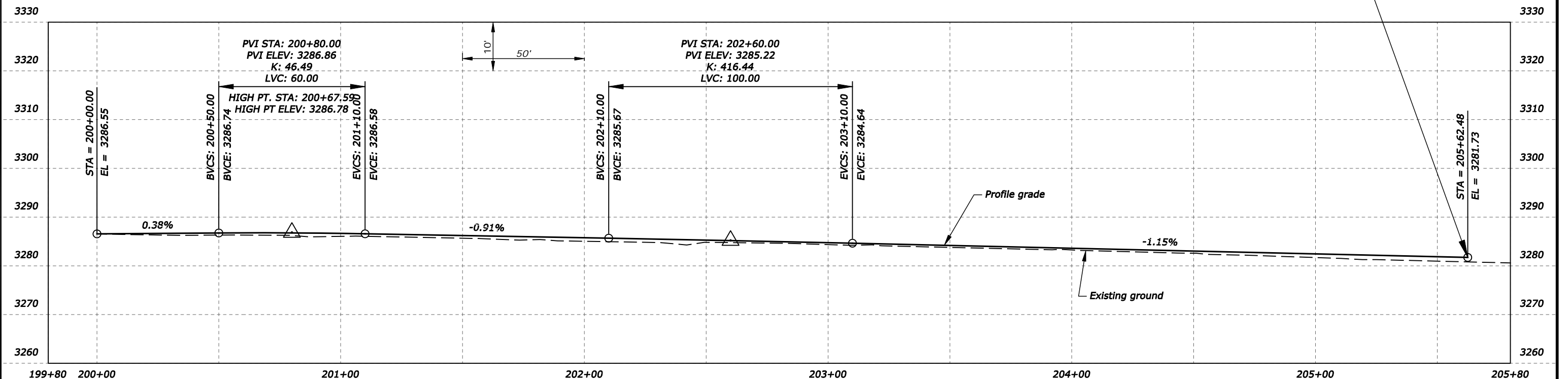
MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

PARKING LOT A
SECTIONS

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| 24 | OF 77 |



CONNECTION DETAIL



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| DESIGN | DJL | PROJ. NO. | 5943 |
| DRAWN | DJL | DATE | 3/2017 |
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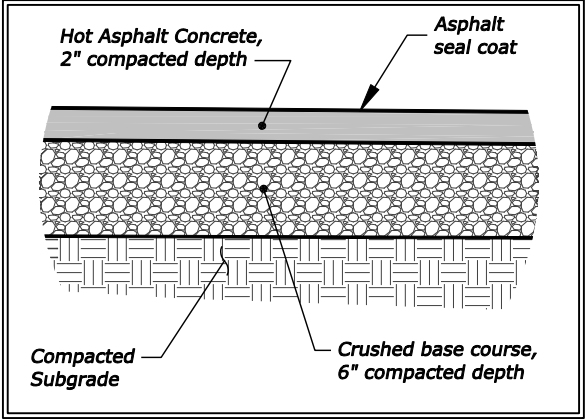
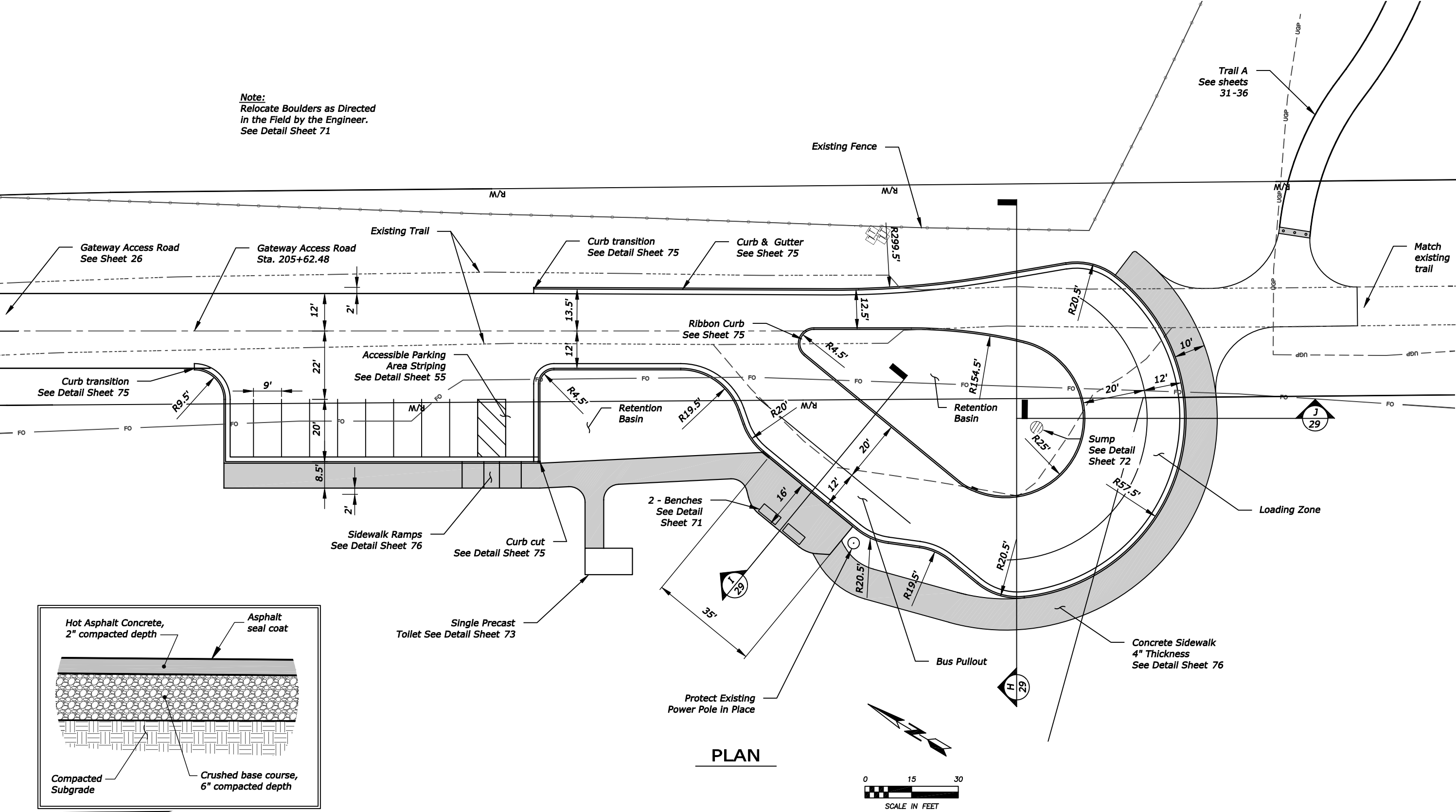


MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

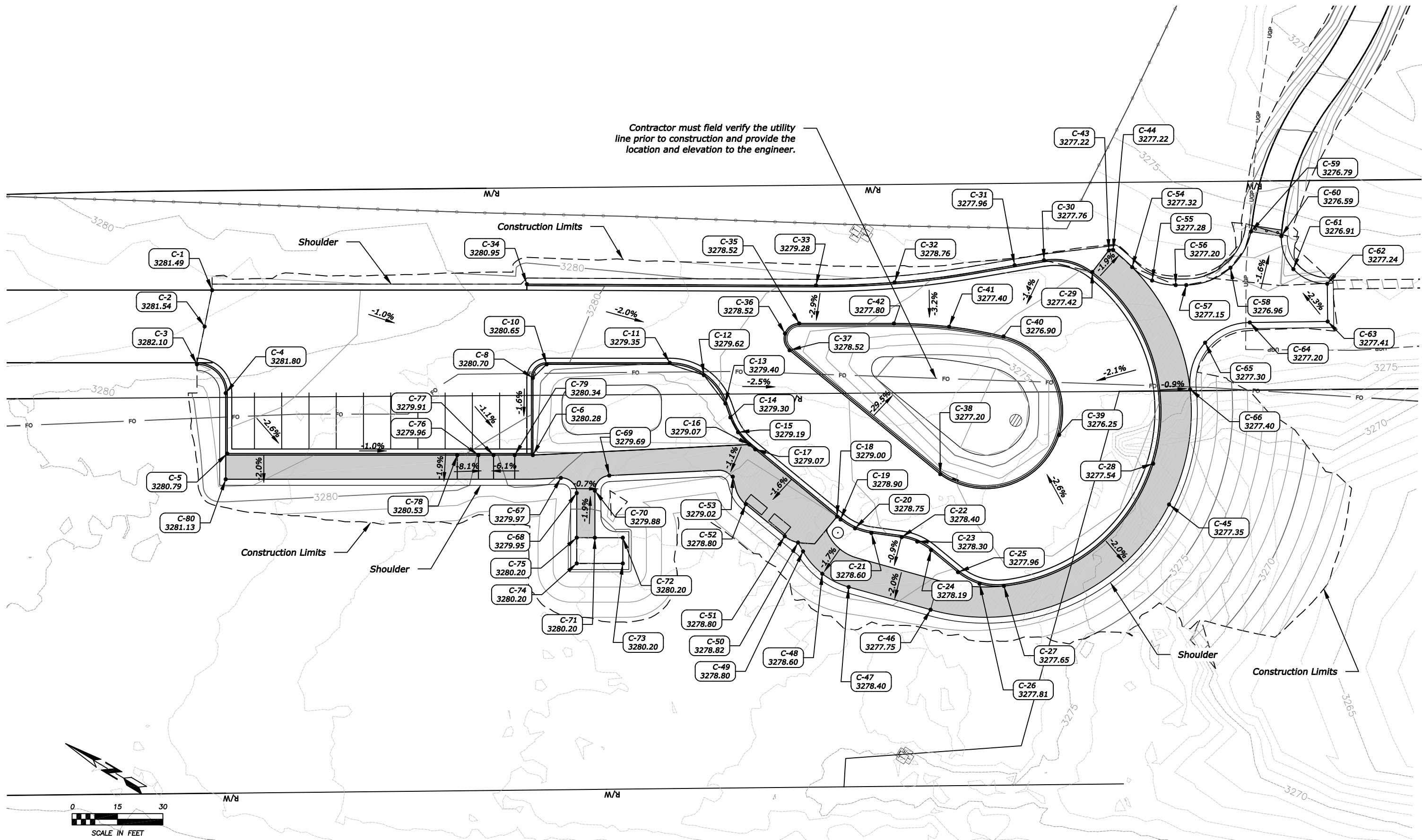
BID ALT. 1
GATEWAY ACCESS ROAD
PLAN & PROFILE

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| 26 | 77 |

Note:
Relocate Boulders as Directed
in the Field by the Engineer.
See Detail Sheet 71

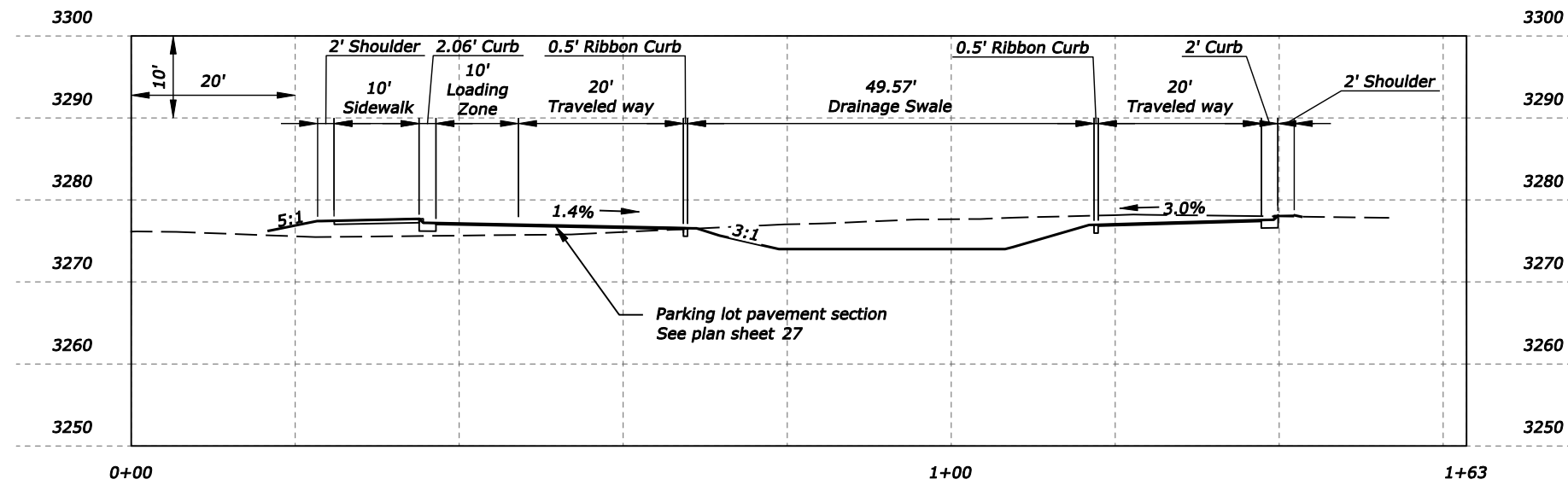


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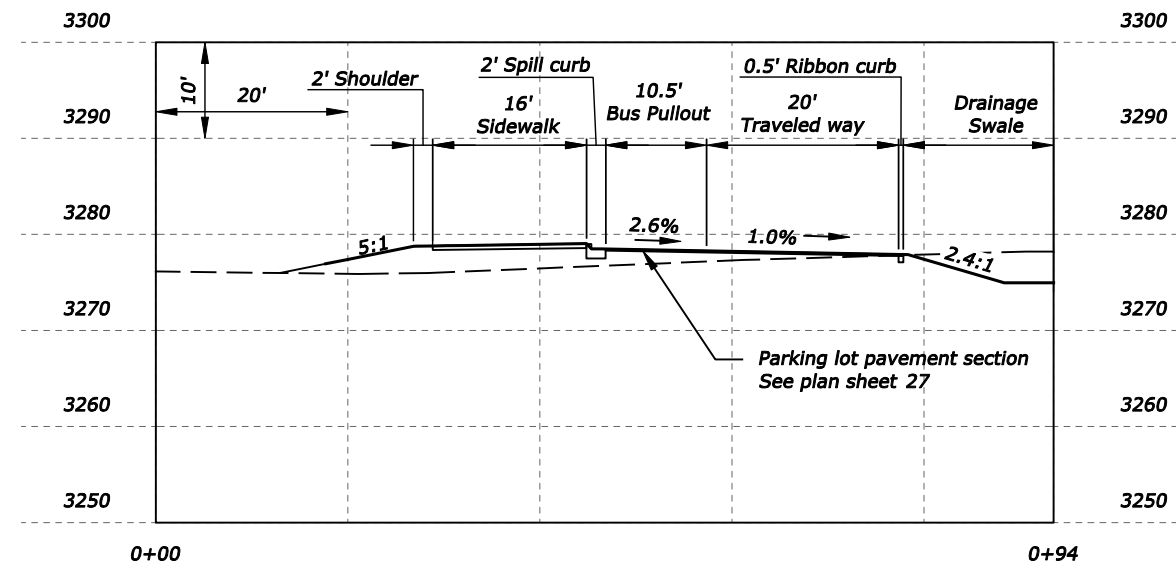


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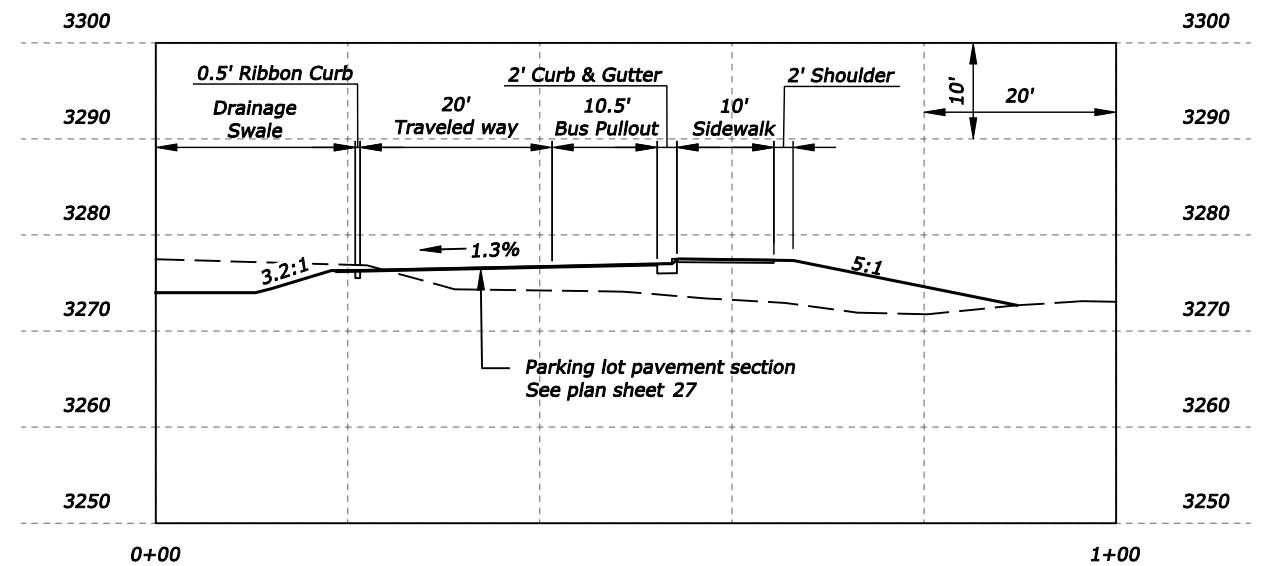
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|  CONSULTING ENGINEERS & LAND SURVEYORS 3203 Russell Street, Missoula, Montana 59801-8591 Phone 406/721-4320 Fax 406/648-8371 | |  MT FISH, WILDLIFE & PARKS MILLTOWN STATE PARK | | BID ALT. 1 GATEWAY PARKING LOT LAYOUT | | SHEET OF 28 77 | |
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H
29
SECTION



I
29
SECTION



J
29
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| BY | DATE | REVISION DESCRIPTION | DESIGN | DJL | PROJ. NO. | 5943 | <div>  <div> MT FISH, WILDLIFE & PARKS MILLTOWN STATE PARK </div> </div> | | <div> <div>BID ALT. 1 GATEWAY PARKING LOT SECTIONS</div> <div> <div>SHEET</div> <div>29</div> <div>OF</div> <div>77</div> </div> </div> | |
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| | | | DRAWN | DJL | DATE | 3/2017 | | | | |
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| LAYOUT POINT COORDINATES | | | | |
|--------------------------|---------------|-------------|--------------|-------------|
| POINT # | NORTHING | EASTING | FG ELEVATION | DESCRIPTION |
| C-1 | 17044852.0012 | 919347.1941 | 3281.49 | Asphalt |
| C-2 | 17044847.6342 | 919335.7423 | 3281.54 | Asphalt |
| C-3 | 17044843.0529 | 919323.8450 | 3282.10 | Asphalt |
| C-4 | 17044829.9362 | 919320.9379 | 3281.80 | Asphalt |
| C-5 | 17044818.7675 | 919304.3394 | 3280.79 | Asphalt |
| C-6 | 17044733.3195 | 919358.1901 | 3280.28 | TBC |
| C-8 | 17044747.0256 | 919379.6924 | 3280.70 | TBC PC |
| C-10 | 17044745.5943 | 919385.9412 | 3280.65 | TBC PT |
| C-11 | 17044711.5546 | 919408.2225 | 3279.35 | TBC PC |
| C-12 | 17044699.8915 | 919410.8338 | 3279.62 | TBC POC |
| C-13 | 17044688.8320 | 919406.7448 | 3279.40 | TBC PT |
| C-14 | 17044684.9763 | 919403.7443 | 3279.30 | TBC PC |
| C-15 | 17044680.2008 | 919400.9707 | 3279.19 | TBC POC |
| C-16 | 17044674.8583 | 919399.5725 | 3279.07 | TBC PT |
| C-17 | 17044672.3766 | 919399.2711 | 3279.07 | TBC |
| C-18 | 17044637.6331 | 919395.0510 | 3279.00 | TBC |
| C-19 | 17044636.1538 | 919394.8713 | 3278.90 | TBC PC |
| C-20 | 17044630.5297 | 919394.9655 | 3278.75 | TBC POC |
| C-21 | 17044625.1429 | 919396.5848 | 3278.60 | TBC PT |
| C-22 | 17044615.9622 | 919400.7912 | 3278.40 | TBC PC |
| C-23 | 17044610.8382 | 919402.3315 | 3278.30 | TBC POC |
| C-24 | 17044605.4884 | 919402.4211 | 3278.19 | TBC PT |
| C-25 | 17044594.0399 | 919401.0305 | 3277.96 | TBC PC |
| C-26 | 17044585.9866 | 919401.6554 | 3277.81 | TBC TOC |
| C-27 | 17044578.7998 | 919405.3428 | 3277.65 | TBC PCC |
| C-28 | 17044558.9547 | 919465.9300 | 3277.54 | TBC POC |
| C-29 | 17044609.9291 | 919508.5035 | 3277.42 | TBC PCC |
| C-30 | 17044625.4691 | 919503.2625 | 3277.76 | TBC PT |
| C-31 | 17044632.7703 | 919496.6386 | 3277.96 | TBC PC |
| C-32 | 17044663.1642 | 919470.5920 | 3278.76 | TBC POC |
| C-33 | 17044684.5563 | 919455.7559 | 3279.28 | TBC PT |
| C-34 | 17044765.3591 | 919404.7699 | 3280.95 | TBC |
| C-35 | 17044682.4771 | 919442.1640 | 3278.52 | ASPHALT PC |
| C-36 | 17044684.6663 | 919436.8404 | 3278.52 | ASPHALT POC |
| C-37 | 17044680.3932 | 919432.9837 | 3278.52 | ASPHALT PT |
| C-38 | 17044616.3965 | 919425.2104 | 3277.20 | ASPHALT PC |
| C-39 | 17044590.2681 | 919457.2227 | 3276.25 | ASPHALT POC |
| C-40 | 17044623.2233 | 919474.8309 | 3276.90 | ASPHALT PCC |
| C-41 | 17044640.1143 | 919467.8794 | 3277.40 | ASPHALT POC |
| C-42 | 17044656.0703 | 919458.9892 | 3277.80 | ASPHALT PT |

| LAYOUT POINT COORDINATES | | | | |
|--------------------------|---------------|-------------|--------------|------------------|
| POINT # | NORTHING | EASTING | FG ELEVATION | DESCRIPTION |
| C-43 | 17044609.1546 | 919517.4626 | 3277.22 | SIDEWALK |
| C-44 | 17044608.0574 | 919518.3714 | 3277.22 | SIDEWALK PC |
| C-45 | 17044547.2509 | 919457.3726 | 3277.35 | SIDEWALK POC |
| C-46 | 17044595.0133 | 919385.6995 | 3277.75 | SIDEWALK PT |
| C-47 | 17044621.8752 | 919377.4734 | 3278.40 | SIDEWALK PC |
| C-48 | 17044631.5927 | 919376.4928 | 3278.60 | SIDEWALK POC |
| C-49 | 17044640.9443 | 919379.3103 | 3278.80 | SIDEWALK PT |
| C-50 | 17044643.8975 | 919380.8826 | 3278.82 | SIDEWALK |
| C-51 | 17044648.7172 | 919380.2797 | 3278.80 | SIDEWALK |
| C-52 | 17044665.2869 | 919382.2916 | 3278.80 | SIDEWALK |
| C-53 | 17044673.7879 | 919387.6513 | 3279.02 | SIDEWALK |
| C-54 | 17044599.7052 | 919516.9940 | 3277.32 | ASPHALT EDGE |
| C-55 | 17044591.7537 | 919516.7909 | 3277.28 | ASPHALT EDGE POC |
| C-56 | 17044584.3518 | 919519.7031 | 3277.20 | ASPHALT EDGE PT |
| C-57 | 17044581.4357 | 919521.5930 | 3277.15 | ASPHALT EDGE PC |
| C-58 | 17044572.1808 | 919534.2454 | 3276.96 | ASPHALT EDGE POC |
| C-59 | 17044572.8840 | 919547.9990 | 3276.79 | ASPHALT EDGE PT |
| C-60 | 17044563.5976 | 919552.0893 | 3276.59 | ASPHALT EDGE PC |
| C-61 | 17044554.3877 | 919545.0382 | 3276.91 | ASPHALT EDGE POC |
| C-62 | 17044542.3733 | 919546.9940 | 3277.24 | ASPHALT EDGE |
| C-63 | 17044535.5372 | 919536.5511 | 3277.41 | ASPHALT EDGE |
| C-64 | 17044557.0734 | 919522.4585 | 3277.20 | ASPHALT EDGE PC |
| C-65 | 17044565.9376 | 919508.8739 | 3277.30 | ASPHALT EDGE POC |
| C-66 | 17044561.8153 | 919493.1856 | 3277.40 | ASPHALT EDGE PT |
| C-67 | 17044721.4642 | 919356.7907 | 3279.97 | SIDEWALK |
| C-68 | 17044714.3591 | 919355.3960 | 3279.95 | SIDEWALK |
| C-69 | 17044708.3883 | 919366.0440 | 3279.69 | SIDEWALK |
| C-70 | 17044709.7168 | 919359.2759 | 3279.88 | SIDEWALK |
| C-71 | 17044701.3642 | 919346.1666 | 3280.20 | SIDEWALK |
| C-72 | 17044693.5800 | 919351.1263 | 3280.20 | VAULT CORNER |
| C-73 | 17044689.0125 | 919343.9578 | 3280.20 | VAULT CORNER |
| C-74 | 17044701.8569 | 919335.7739 | 3280.20 | VAULT CORNER |
| C-75 | 17044706.4243 | 919342.9425 | 3280.20 | VAULT CORNER |
| C-76 | 17044748.5000 | 919348.5178 | 3279.96 | TBC LAYDOWN |
| C-77 | 17044744.2832 | 919351.2045 | 3279.91 | TBC LAYDOWN |
| C-78 | 17044754.4035 | 919344.7563 | 3280.53 | TBC POT |
| C-79 | 17044738.3797 | 919354.9660 | 3280.34 | TBC POT |
| C-80 | 17044814.6217 | 919296.9022 | 3281.13 | SIDEWALK |

Note: Elevations shown are to Finished Grade unless otherwise noted.

| BY | DATE | REVISION DESCRIPTION |
|----|------|----------------------|
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|---------|-----|-----------|--------|
| DESIGN | DJL | PROJ. NO. | 5943 |
| DRAWN | DJL | DATE | 3/2017 |
| CHECKED | CA | SURVEYED | DJ&A |



MT FISH, WILDLIFE & PARKS
MILLTOWN STATE PARK

BID ALT. 1
GATEWAY PARKING LOT
COORDINATES

| SHEET | |
|-------|----|
| | OF |
| 30 | 77 |